DRAFT DATE: Apr04

NAD

SERVICE MANUAL

T 762

AV SURROUND SOUND RECEIVER

T 762

AV SURROUND SOUND RECEIVER

SAFETY INFORMATION

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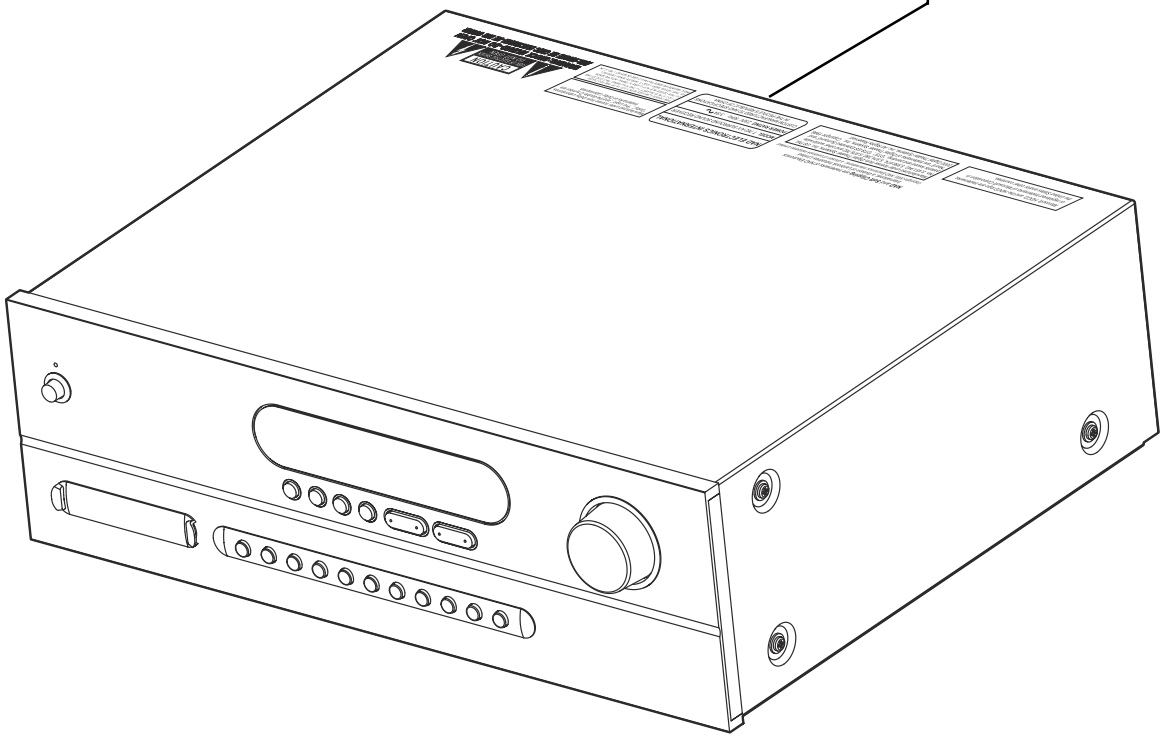
THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, (2) THIS DEVICE MUST ACCEPT INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

WARNING: SHOCK HAZARD - DO NOT OPEN
AVIS: RISQUE DE CHOC ELECTRIQUE - NE PAS OUVRIR



SERVICE SAFETY PRECAUTIONS

1. Replacing the fuses

CAUTION:
FOR CONTINUED PROTECTION AGAINST THE RISK OF FIRE REPLACE ONLY WITH SAME TYPE OF FUSE.

Reference Designator	Part Number	Description
F751*AH	33-0191001-00-88	Fuse 10A 250V Time Lag 5x20 MM UL/CSA
F751*C	33-0181006-00-88	Fuse 6.3A 250V Time Lag 5x20 MM UL/CSA/SEMKO/VDE
F752*AH	33-0111006-00-48	Fuse 1.6A 250V Time Lag 5x20 MM UL/CSA/VDE/SEMKO
F752*C	33-0151006-00-48	Fuse 800mA 250V Time Lag 5x20 MM UL/CSA/VDE/SEMKO

NOTE:
<*AH > : USA, CANADIAN MODEL ONLY.
<*C > : EUROPEAN MODEL ONLY.

2. Safety check out

(Only U.S.A. model)
Before returning the product to the customer, make leakage current or resistance measurements to determine that exposed parts are acceptably insulated from supply circuit.

Parts marked with the symbol ⚠ are critical with regard to the risk of fire and electric shock.
Replace only with parts recommended by the manufacturer.

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SPECIFICATIONS

POWER AMPLIFIER SECTION

Rated distortion	(Rated power level into 8 ohms, THD 20 Hz-20 kHz FL/C/FR)	≤ **0.1 %**
	(Rated power level into 8 ohms, THD 20 Hz-20 kHz SL/SR/BS)	≤ **0.1 %**
Input Sensitivity	(ref. 8 ohms, 1 kHz)	**220 ± 20 mV**
S/N Ratio	(A-wtd, 1kHz, 1 W, 8 ohm, SL/SR/BL)	**≥ - 72 dB**
Frequency Response	(20 Hz - 20 kHz)	**0 ± 1.0 dB**
Channel Balance	(1 dB to -40 dB, 1 kHz)	≤ **2 dB**
	(-41 dB to -50 dB, 1 kHz)	≤ **3 dB**
Audio muting at 1 kHz		≥ **55 dB**
Subwoofer out, 500 mV in	(THD at 2 V O/P, 100 Hz)	≤ **0.5 %**
Crosstalk	(500 mV input, 10 W, 1 kHz)	**≥ -57 dB**

Controls

Bass	(at 500 mV in, 1 W out, 100 Hz)	**± 10 dB ± 2 dB**
Treble	(at 500 mV in, 1 W out, 10 kHz)	**± 10 dB ± 2 dB**

DOLBY DIGITAL SECTION

Channel Difference(FL ref. Track 30)			**± 1.2 dB**
Frequency Resporse at Dolby config.2		SL Track 46 200 - 20 kHz	**± 0.8 dB**
		SR Track 47 200 - 20 kHz	**± 0.8 dB**
		C Track 44 200 - 20 kHz	**± 0.8 dB**
Harmonic Distortion	(1 W, Audio LPF, Dolby Congfig 1)	FL Track 65 997 Hz	≤ **0.08 %**
		FR Track 67 997 Hz	≤ **0.08 %**
		SL Track 68 997 Hz	≤ **0.08 %**
		SR Track 69 997 Hz	≤ **0.08 %**
		C Track 66 997 Hz	≤ **0.08 %**
S/N Ratio	(31 for O/P 1 W, Track 35)	CCIR / ARM	**≥ 65 dB**
		Audio LPF	**≥ 70 dB**
		A-wtd	**≥ 70 dB**
Channel Separation	(1 W, 20 kHz LPF)	Track 65 997 Hz	**≥ 60 dB**

DOLBY PRO LOGIC II SECTION

Frequency Resporse

I/P mode : L, R	: 1 V in, 1 W, Ch L/R	40 Hz	**0 ± 2.0 dB**
		20 Hz	**0 ± 2.0 dB**
I/P mode : L=R	: 1 V in, 1 W, Ch /L/R	40 Hz	**0 ± 2.0 dB**
	Ch C	20 kHz	**0 ± 2.0 dB**
I/P mode : L=-R	: 1 V in, 1 W, Ch SL/SR	40 Hz	**0 ± 2.0 dB**
		20 kHz	**0 ± 2.0 dB**
S/N Ratio (200 mV in, 1 W, A-WTD w/ 1 k termination)			
I/P mode : L, R	: 1 kHz, Ch L/R		**≥ 65 dB**
I/P mode : L=R	: 1 kHz, Ch C		**≥ 65 dB**
I/P mode : L=-R	: 1 kHz, Ch SL/SR		**≥ 65 dB**
THD (2.2 V in, 1 W, w/ 80 kHz LPF, 1 kHz)			≤ **0.2 %**

DTS SECTION

Output Level (Vol 0 dB)	: FL/FR/C/SL/SR	Track 6 1 kHz	**0.5 ± 2.0 W**
Channel Difference (FL ref)	: FL/FR/C/SL/SR	Track 6 1 kHz	**± 1.0 dB**
Harmonic Distortion (Audio Filter)	: FL/FR/C/SL/SR	Track 10-14 1 kHz	**≤ 0.08 %**
Frequency Response (20 Hz to 20 kHz)		Track 26-30	**+2/-1.5**
Subwoofer Output Level	1 kHz ref at pre-out (FL)	Play Track 10, charge to 15	**10.5 ± 1.5 dB**

AM TUNER SECTION

Input level is expressed as the reading in open circuit of 75-ohm source impedance signal generator

Usable sensitivity	(999/1000 kHz)	**≤ 30 dBuV**
S/N Ratio	(5 mV in)	**≥ 38 dB**
THD	(5 mV in)	**≤ 3 %**
IF Rejection	(450 kHz)	**≤ 36 dB**
Image Rejection	(F+2xIF)	**≥ 28 dB**
Selectivity		**≥ 17 dB**
Output		**170 ± 20 mV**
Loop sensitivity	(20 dB S/N)	
	999/1000 kHz	**≤ 66 dB**
	603/600 kHz	**≤ 66 dB**
	1404/1400 kHz	**≤ 66 dB**
Frequency Response	(100 - 2.3 kHz, 5 mV)	**± 6 dB**

FM TUNER SECTION

Input level is expressed as the reading in open circuit of 75-ohm source impedance signal generator

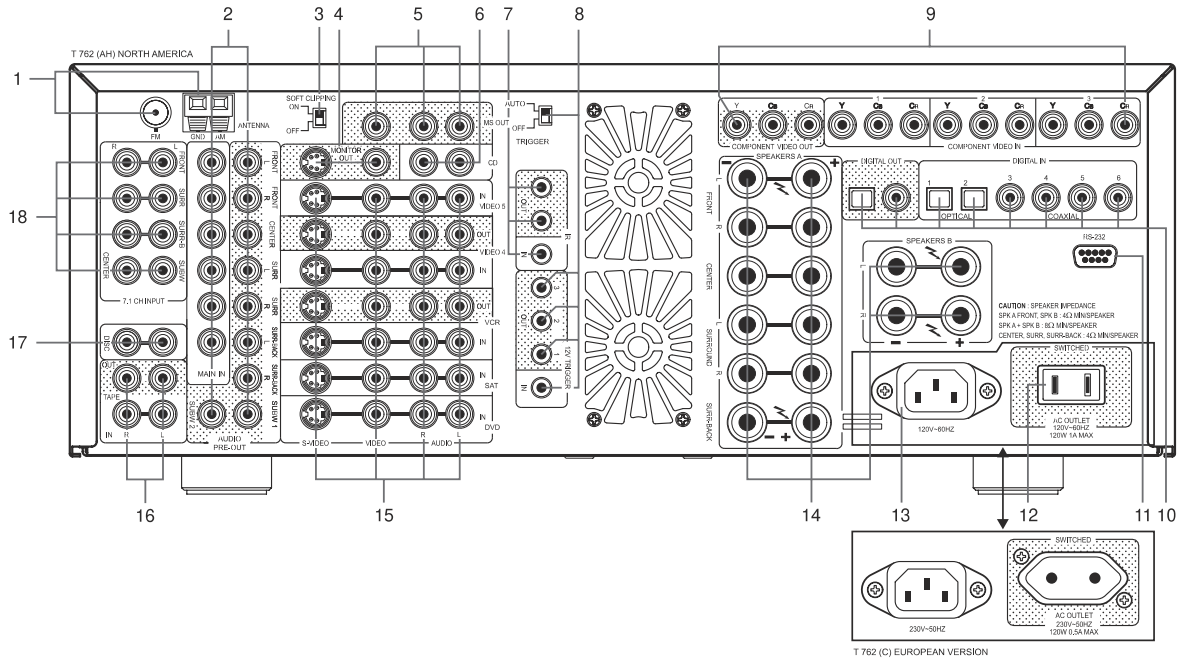
			*C	*AH
Usable sensitivity	(98 MHz)		**≤ 15 dBμV**	**≤ 15 dBuv**
S/N Ratio	(60 dB, IHF wtd)	Mono	**≥ 63 dB**	**≥ 63 dB**
		Stereo	**≥ 63 dB**	**≥ 63 dB**
Frequency Response	(20 Hz - 15 kHz, 60 dBμ)		**0 ± 1.5 dB**	**0 ± 1.5 dB**
Channel Separation	(60 dBμ)	100 Hz	**≥ 30 dB**	**≥ 30 dB**
		1 k	**≥ 38 dB**	**≥ 38 dB**
		10 kHz	**≥ 30 dB**	**≥ 30 dB**
Alternate Channel Selectivity (40 dBμ, ± 400 kHz)			**≥ 60 dB**	**≥ 45 dB**
Capture Ratio	(40 dBμ)		**≤ 3 dB**	**≤ 3 dB**
AM Suppression (60 dBμ, 100% Mod. FM, 30% Mod. AM)			**≥ 48 dB**	**≥ 48 dB**
Image Rejection	(119.4 MHz)		**≥ 65 dB**	**–**
I.F. Rejection	(10.7 MHz)		**–**	**≥ 78 dB**
Pilot Suppression	(98 MHz)		**≥ 60 dB**	**≥ 60 dB**
THD (60 dBμ, L=R 75 kHz for AH, 40 kHz Dev for C)		Mono	**≤ 0.25 %**	**≤ 0.25 %**
		Stereo	**≤ 0.35 %**	**≤ 0.35 %**
Auto-Search Sensitivity		On	**≥ 24 dBμ**	**≥ 24 dBμ**
		Off	**≤ 15 dBμ**	**≤ 15 dBμ**
RDS decode Sensitivity			**≤ 26 dBμ**	**–**

PHYSICAL SPECIFICATIONS

Dimensions (Width x Height x Depth)	**435 x 167 x 382 mm**
Net Weight	**18.50 Kg (40.70 lbs)**
Shipping Weight	**22.20 Kg (48.84 lbs)**

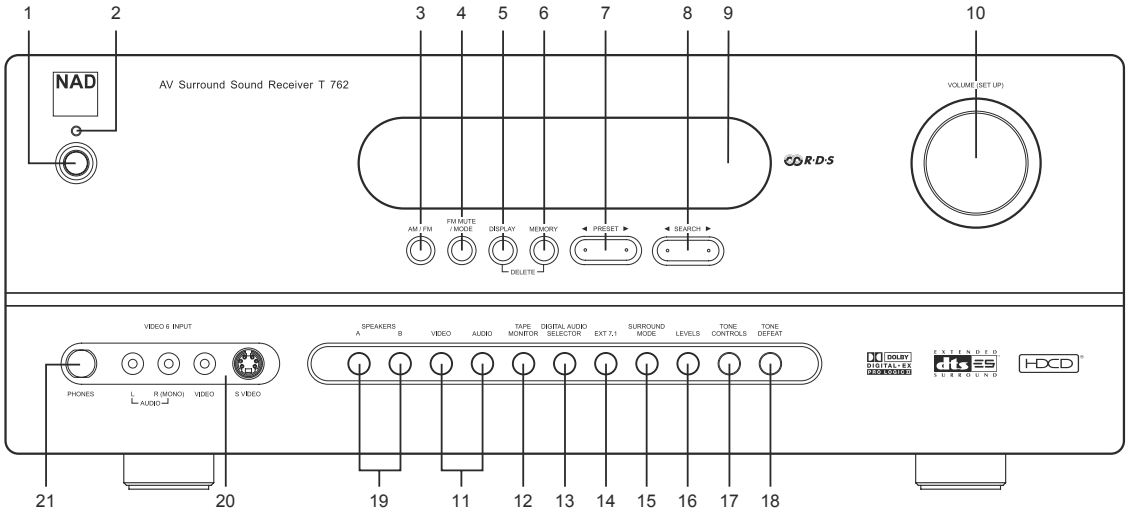
REAR PANEL / FRONT PANEL VIEW

REAR PANEL



1. FM & AM ANTENNA
2. MAIN IN / AUDIO PRE-OUTS / SUBWOOFER OUT
3. SOFT CLIPPING ON/OFF
4. MONITOR OUT
5. MS OUT (MULTISOURCE OUT)
6. CD INPUT
7. IR INPUT & OUTPUT
8. 12V TRIGGER INPUT & OUTPUT
9. COMPONENT VIDEO IN & COMPONENT VIDEO OUT
10. DIGITAL AUDIO INPUT & DIGITAL AUDIO OUTPUT
11. RS-232
12. SWITCHED AC OUTLETS
13. AC POWER INLET
14. SPEAKERS A & B
15. DVD, SAT, VCR, VIDEO 4 & VIDEO 5
16. TAPE INPUT & OUTPUT
17. DISC INPUT
18. 7.1 CH. INPUTS

FRONT PANEL



1. POWER
2. STAND-BY
3. AM / FM
4. FM MUTE / MODE
5. DISPLAY
6. MEMORY
7. PRESET DOWN / UP
8. SEARCH DOWN / UP
9. VFL DISPLAY
10. VOLUME (SETUP)
11. VIDEO & AUDIO
12. TAPE MONITOR
13. DIGITAL AUDIO SELECTOR
14. EXT. 7.1
15. SURROUND MODE
16. LEVELS
17. TONE CONTROLS
18. TONE DEFEAT
19. SPEAKERS A & B
20. VIDEO 6 INPUT
21. PHONES

DISASSEMBLY INSTRUCTIONS

1. Remove machine screws M4.0 x 8.0 (**1** to **6**) from the side panels.
Remove tapping screw 3.0 x 8.0 (**7** to **10**) from the back panel.
Refer to **Figure No. 1**.

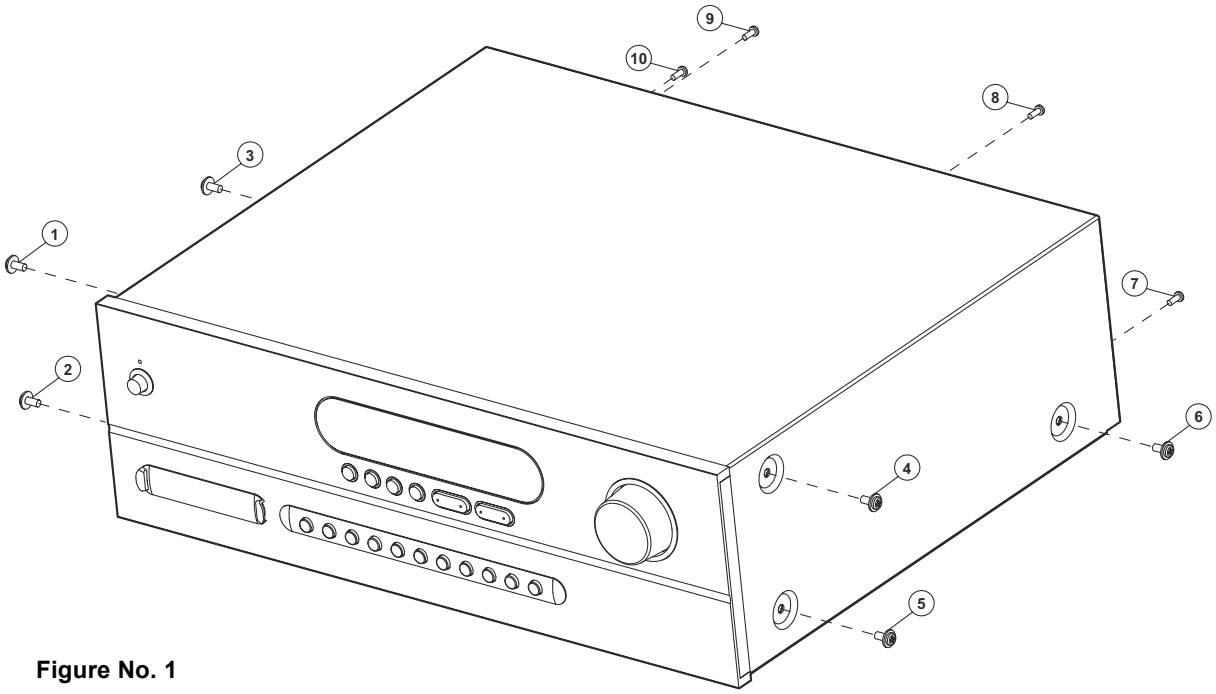


Figure No. 1

2. Pull both sides of the TOP COVER slightly outwards **11** and tilt approx. 35 ° and then remove in the direction as indicated by the arrow **12**. Refer to **Figure No. 2**.

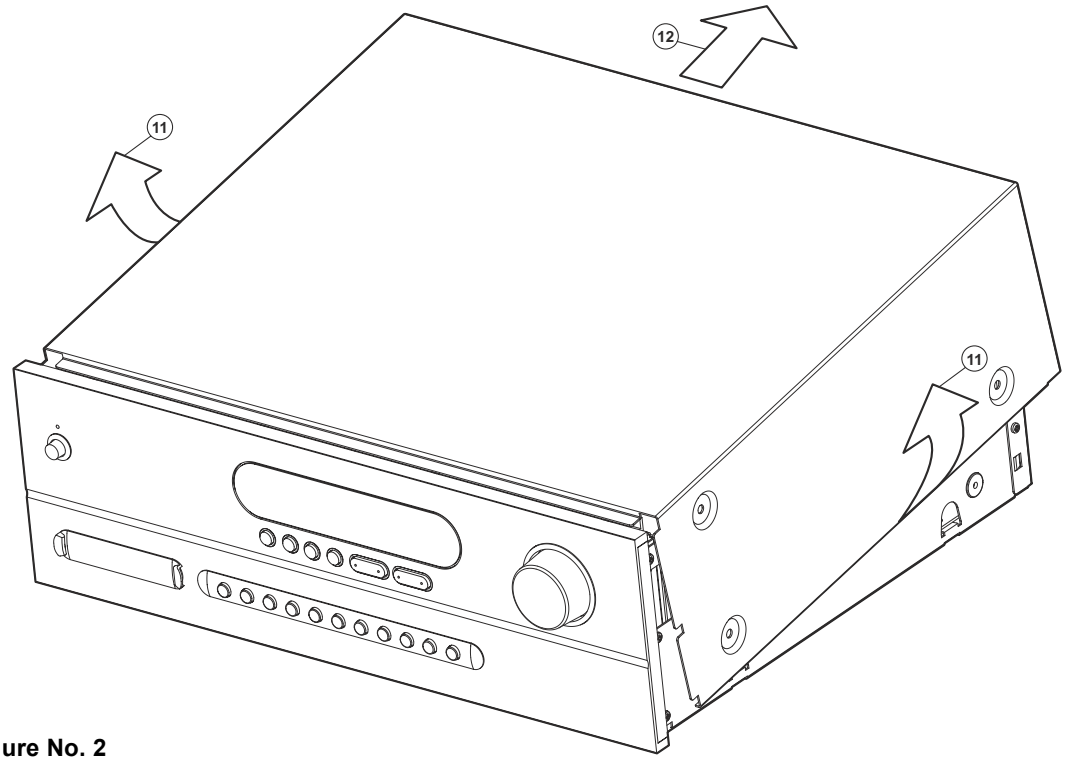
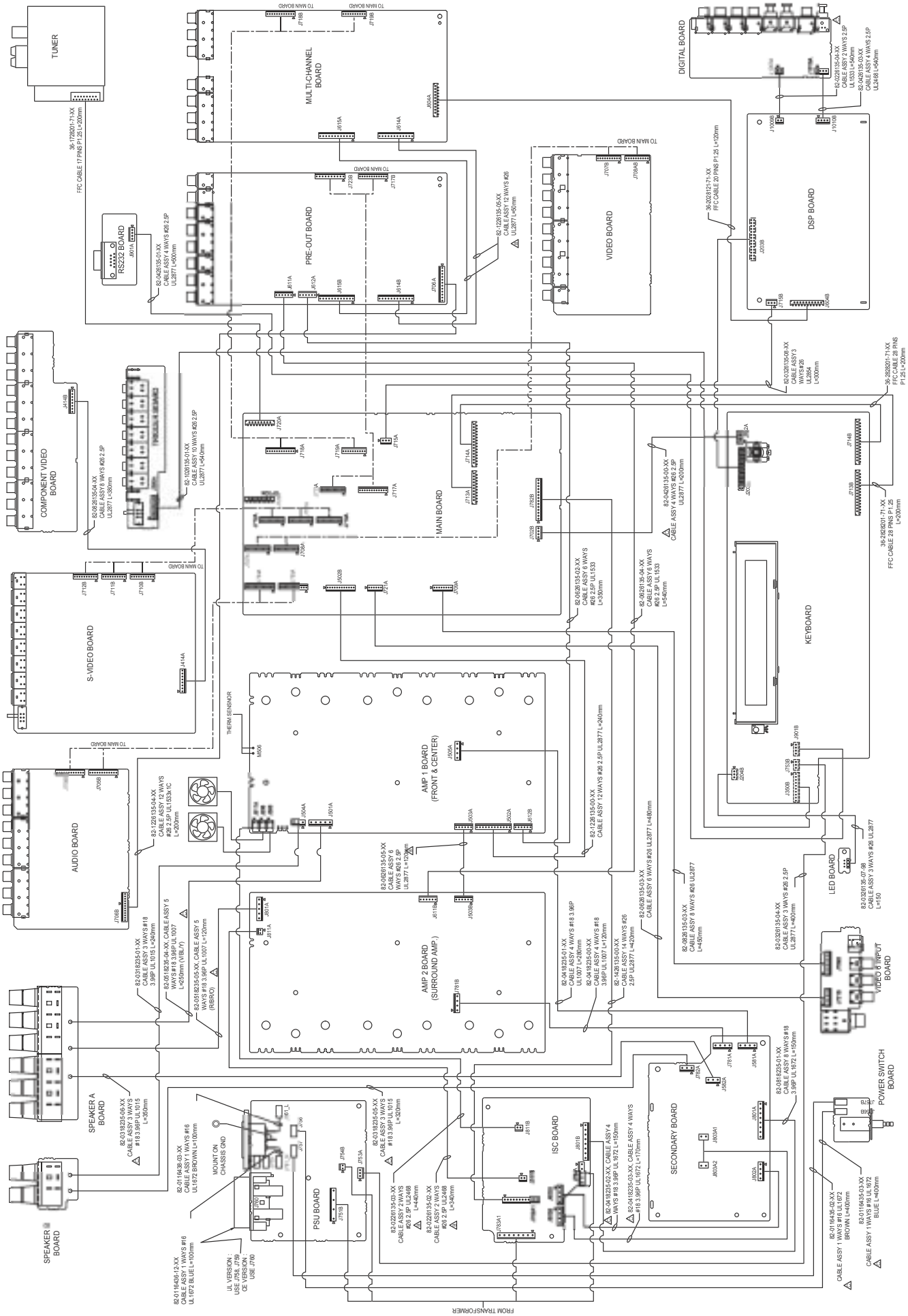
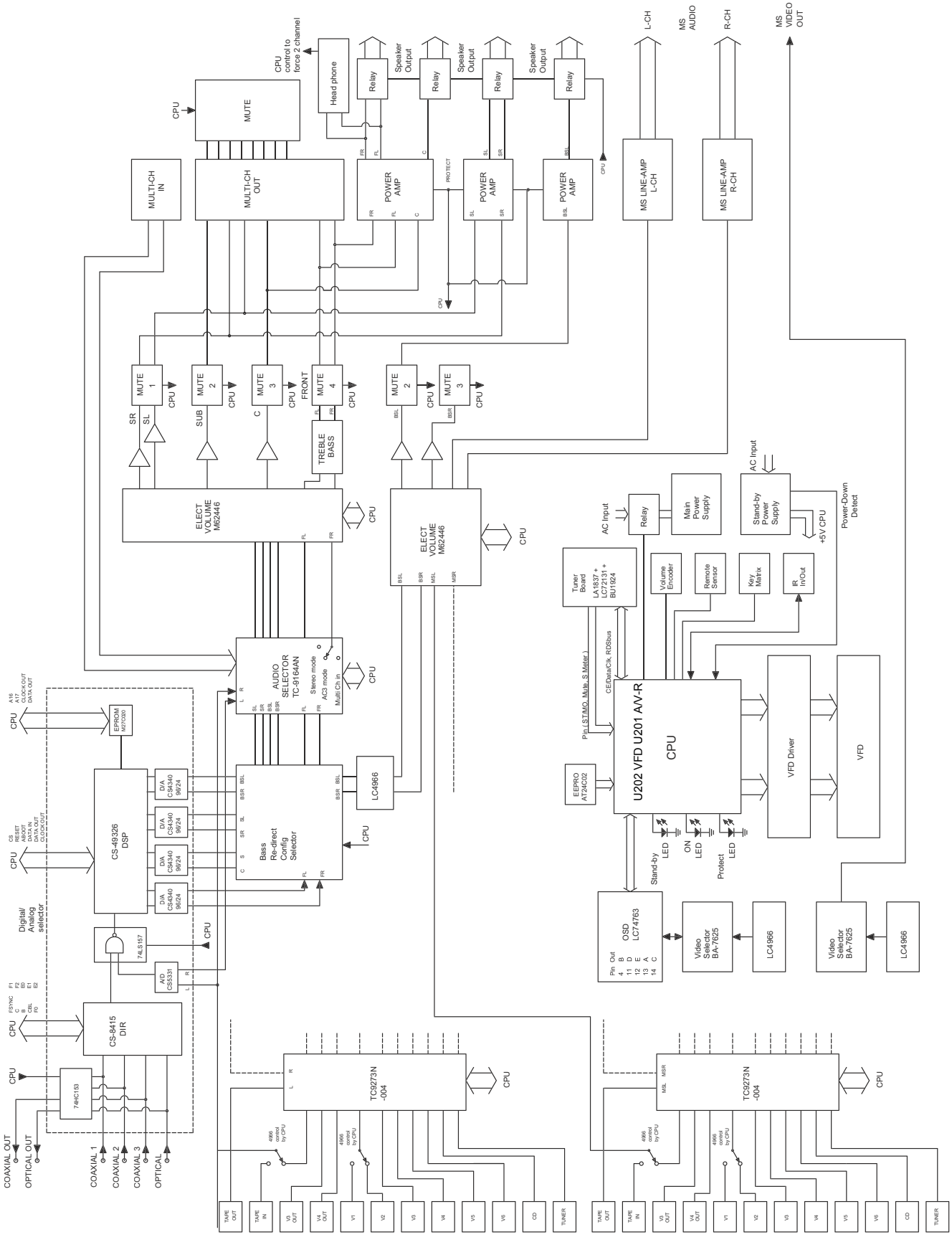


Figure No. 2

WIRING DIAGRAM

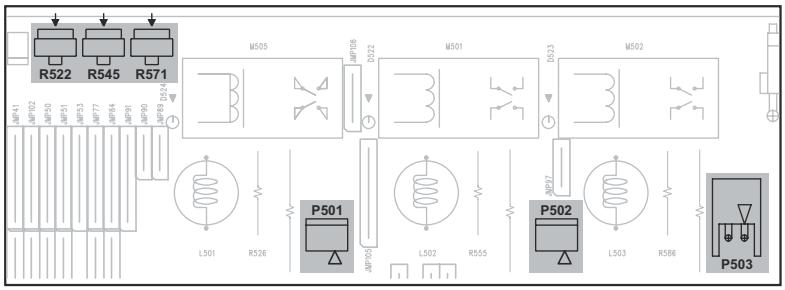


BLOCK DIAGRAM

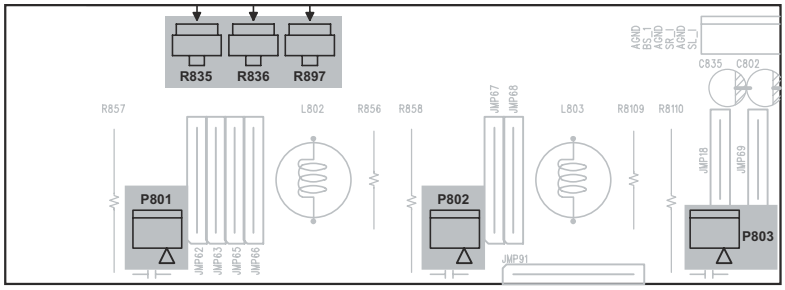


ADJUSTMENT POINT DIAGRAM

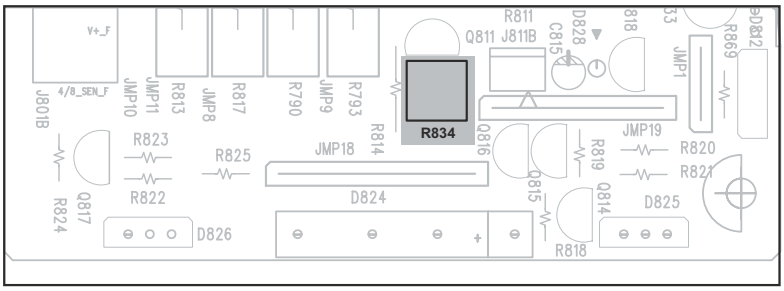
FRONT/CENTER AMPLIFIER BOARD



SURROUND AMPLIFIER BOARD



ISC BOARD



AMPLIFIER ADJUSTMENT

Idle Current

1. Rotate R522 fully clockwise.
2. Connect DC millivoltmeter to P501 (i.e. Across half of R523, 0.22 Ohm resistor).
3. Turn on the unit.
4. Adjust R522 for 1mV reading on voltmeter.
5. Leave power on for at least 5 min, and check for idle current again.
6. Repeat for other channels.

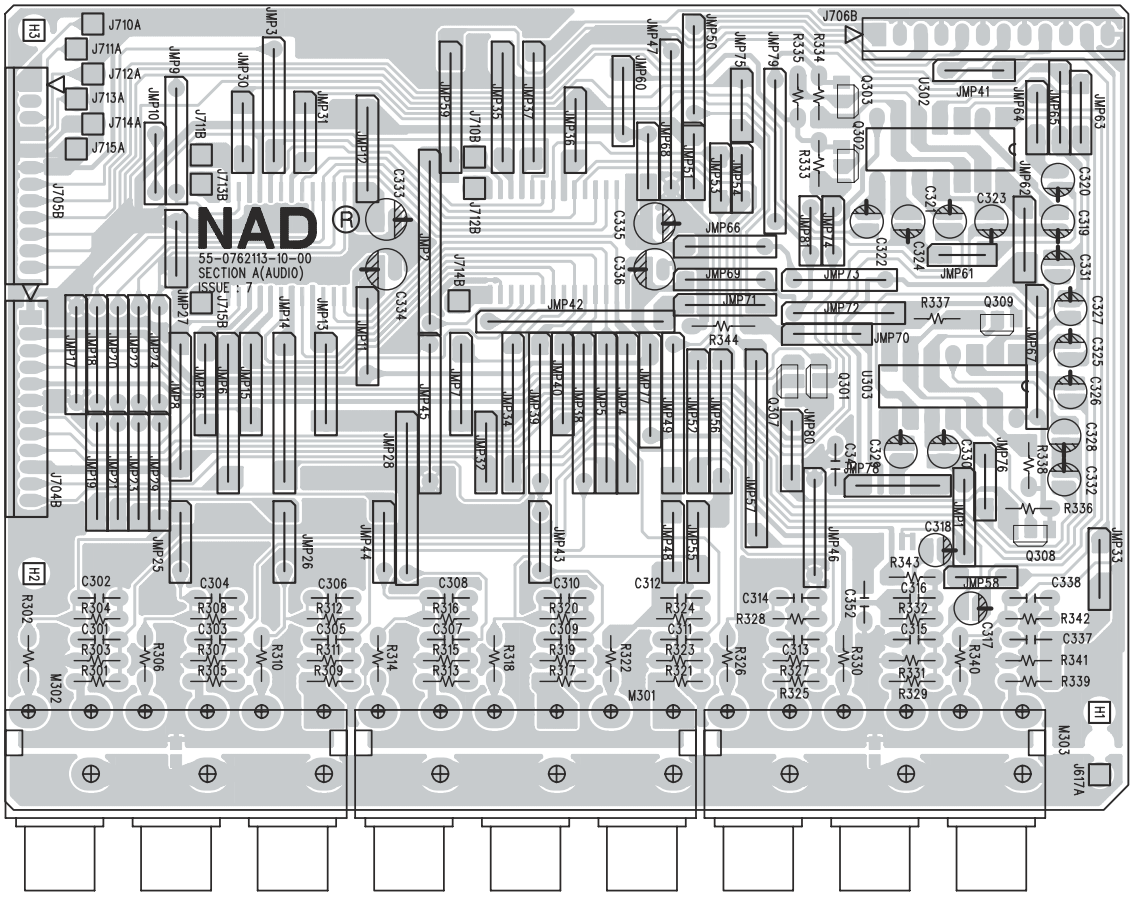
CHANNEL	JUMPER	VR
FL	P503	R571
FR	P502	R545
C	P501	R522
SL	P801	R835
SR	P802	R836
BS	P803	R897

ISC Sensitivity

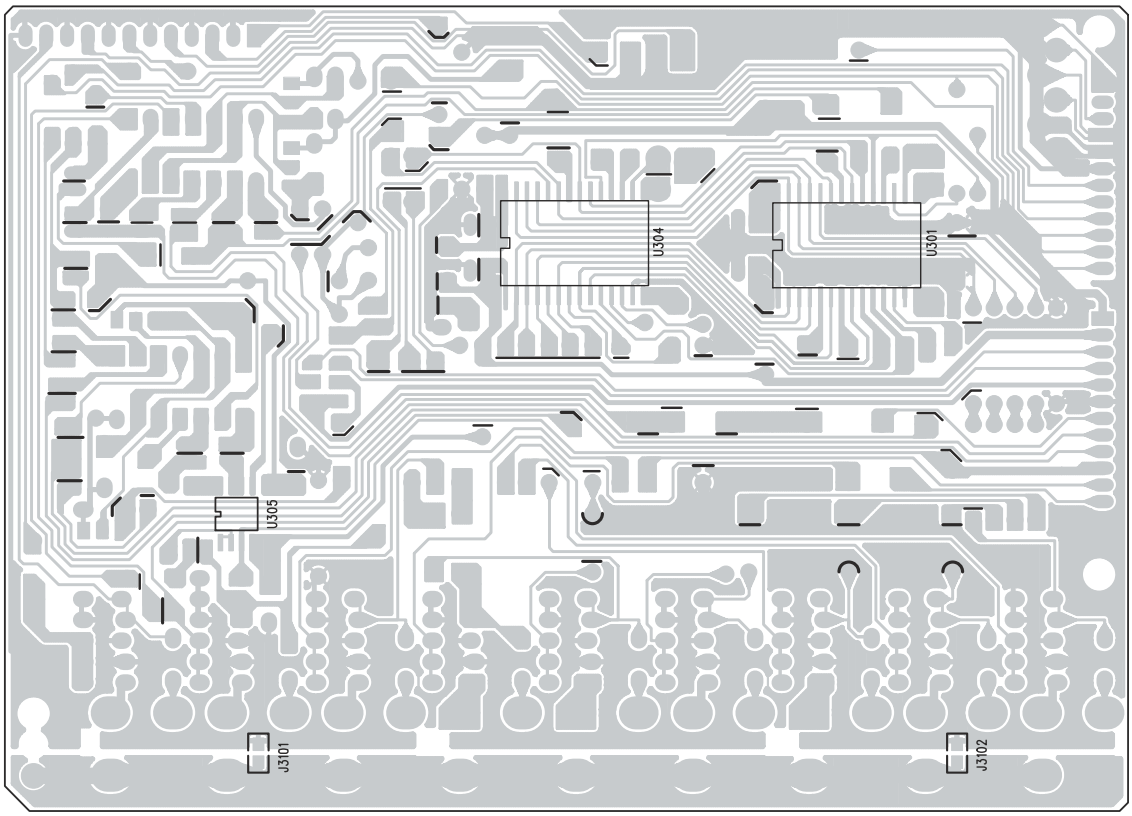
1. Connect 8 ohm loading to all channels.
2. Rotate R881 fully clockwise.
3. Load all channels at full power using 1kHz sine wave.
4. At this time, monitor the THD of the SL,SR,BS output. Clipping should occur before full power achieved.
5. Rotate R834 counter-clockwise slowly until the THD just below 0.1%.
6. Repeat step 2-5 for R834 but monitor FL, FR & Center output.
7. The procedure is finish at this step.
8. Load all channels at full power using 1kHz sine wave with 4 ohm load.
9. The clipping power(at THD 0.1%) should less than 85W.

PCB LAYOUT

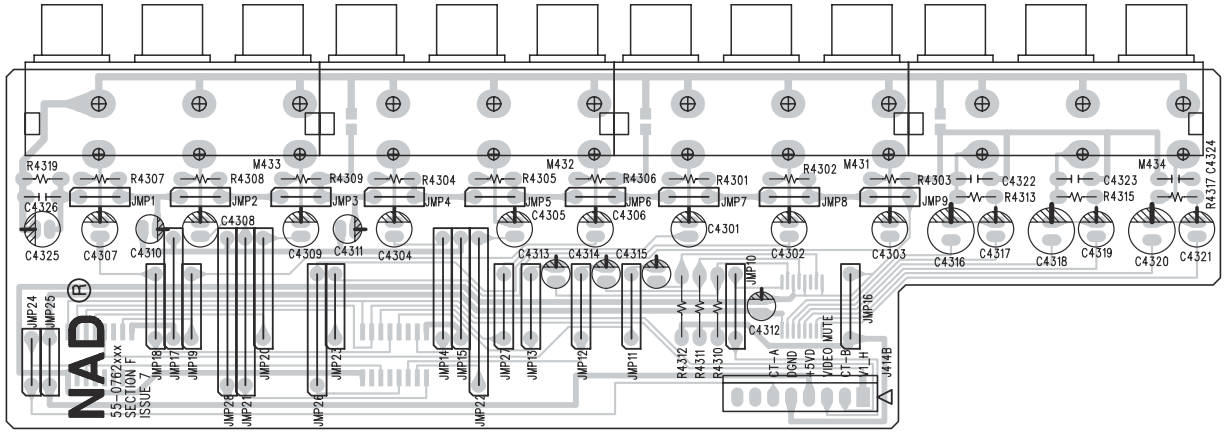
AUDIO BOARD - COMPONENT SIDE



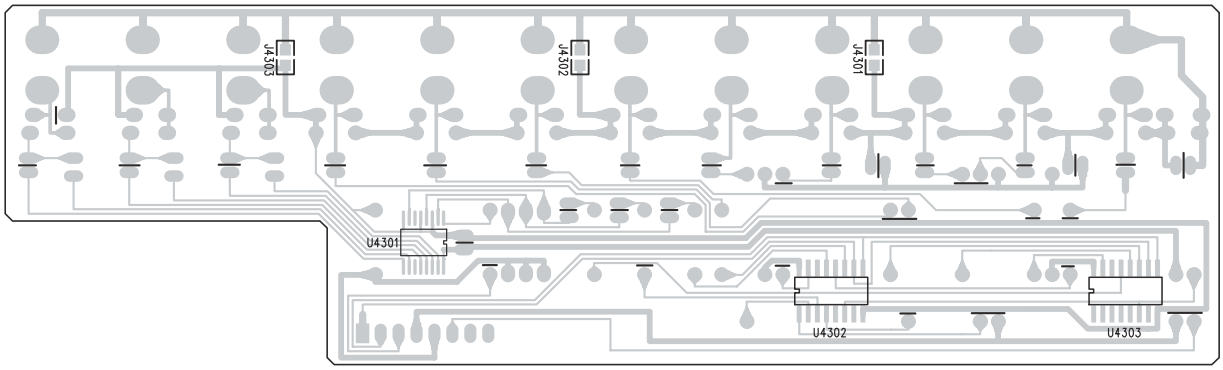
AUDIO BOARD - COPPER SIDE



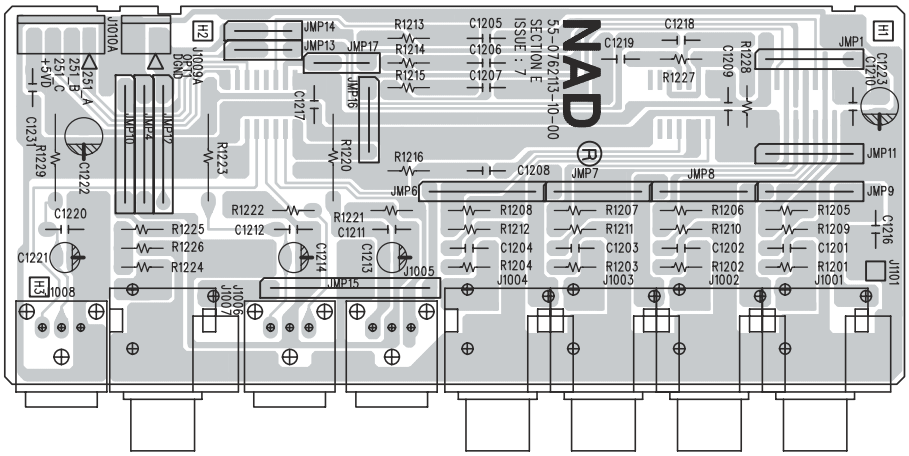
COMPONENT VIDEO BOARD - COMPONENT SIDE



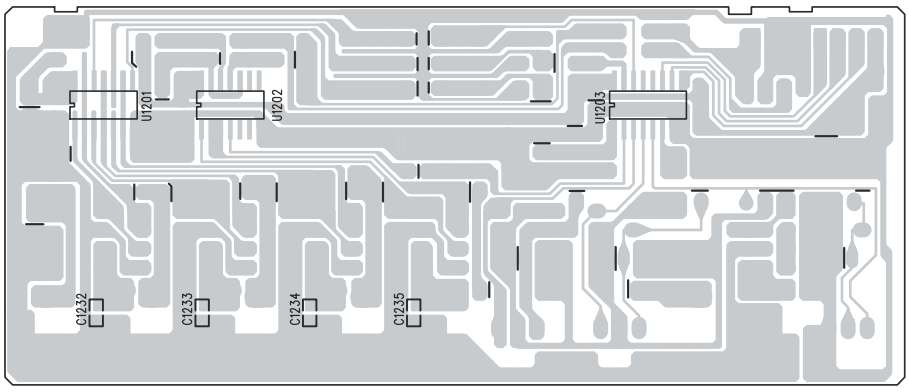
COMPONENT VIDEO BOARD - COPPER SIDE



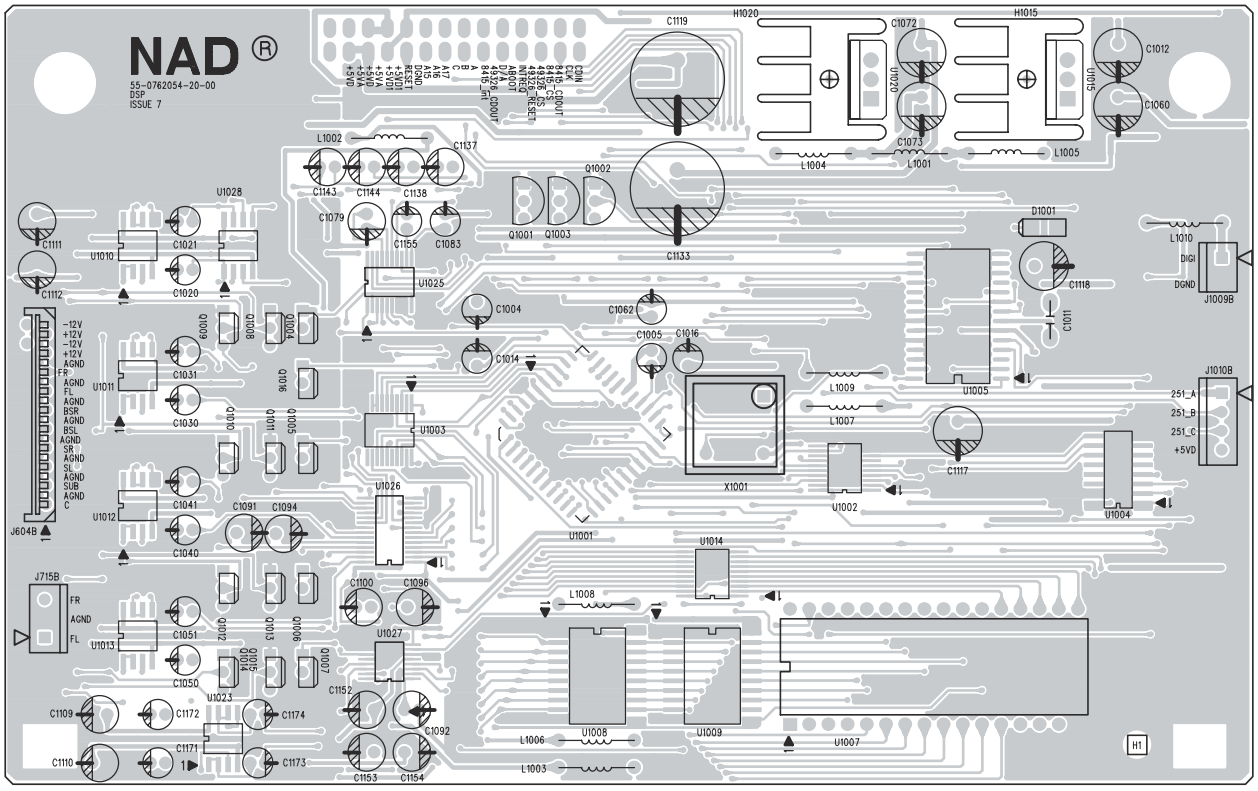
DIGITAL BOARD - COMPONENT SIDE SIDE



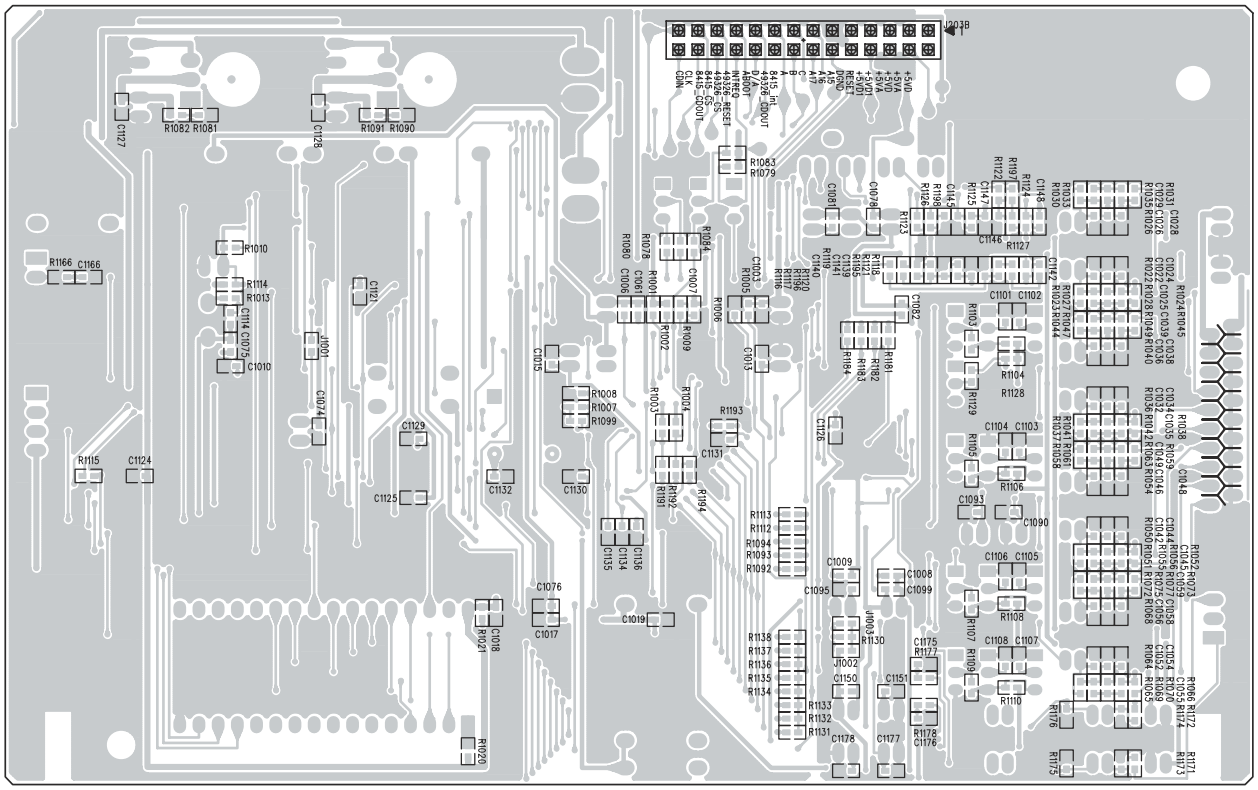
DIGITAL BOARD - COPPER SIDE



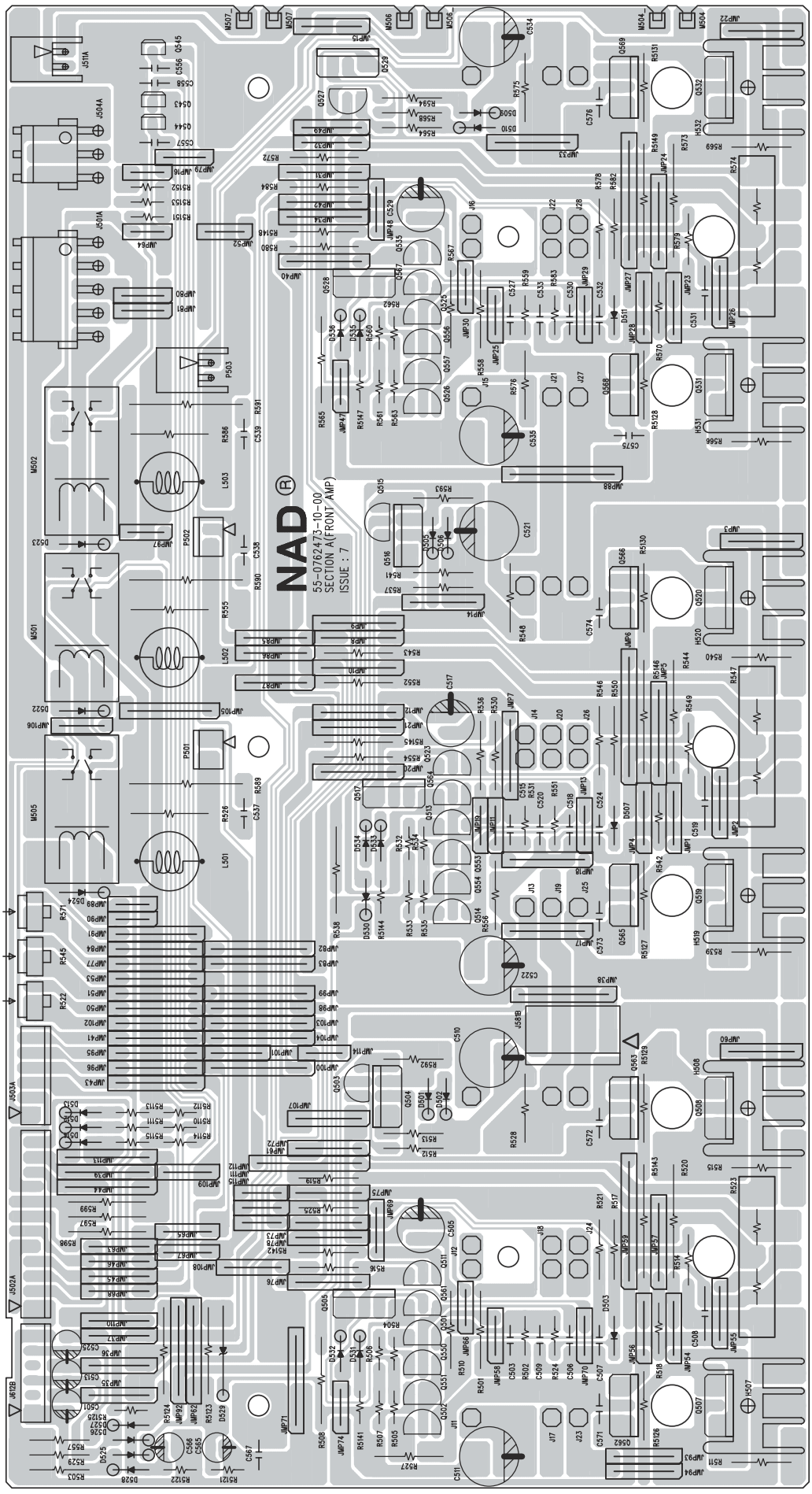
DSP BOARD - COMPONENT SIDE



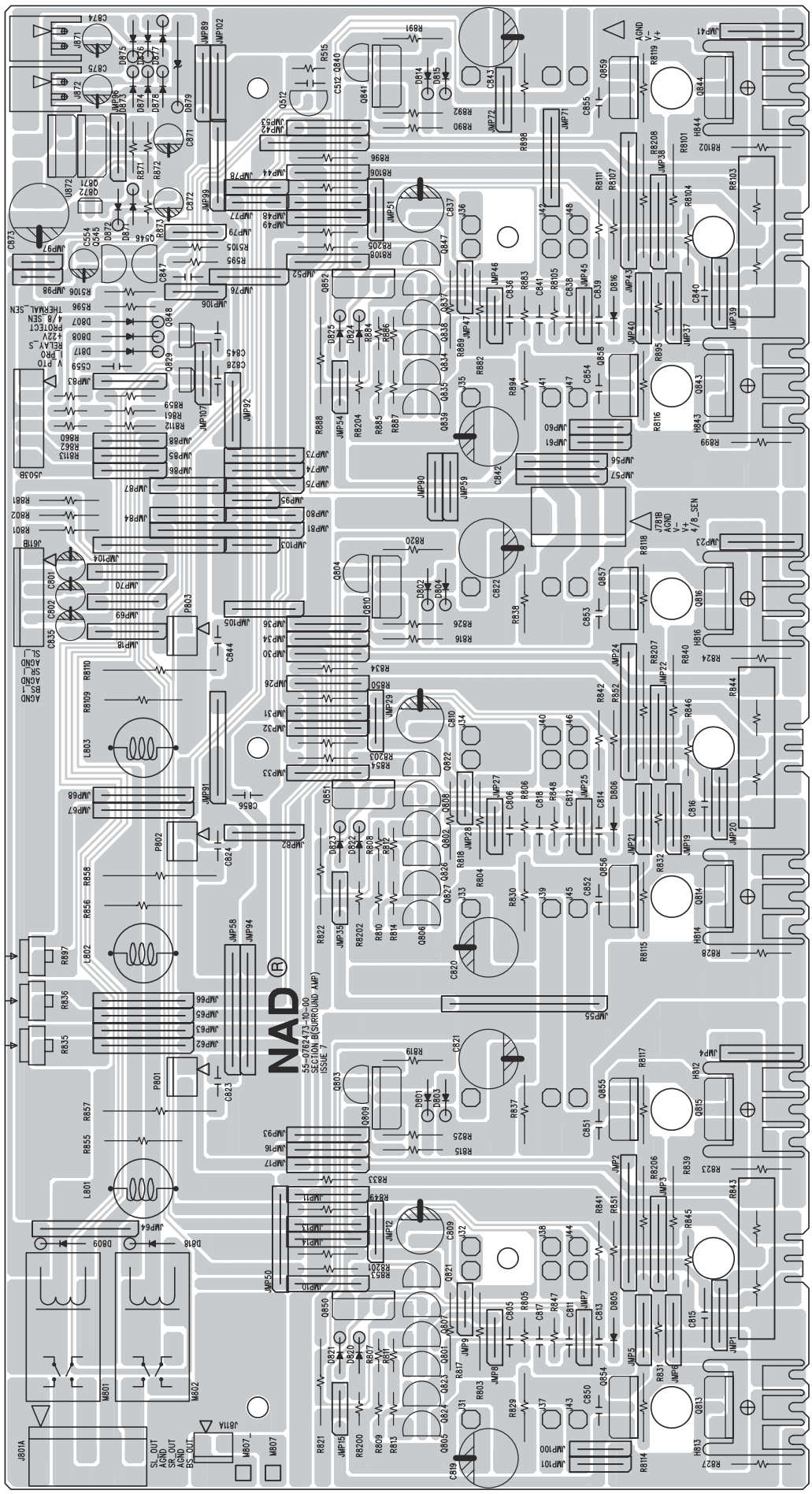
DSP BOARD - COPPER SIDE



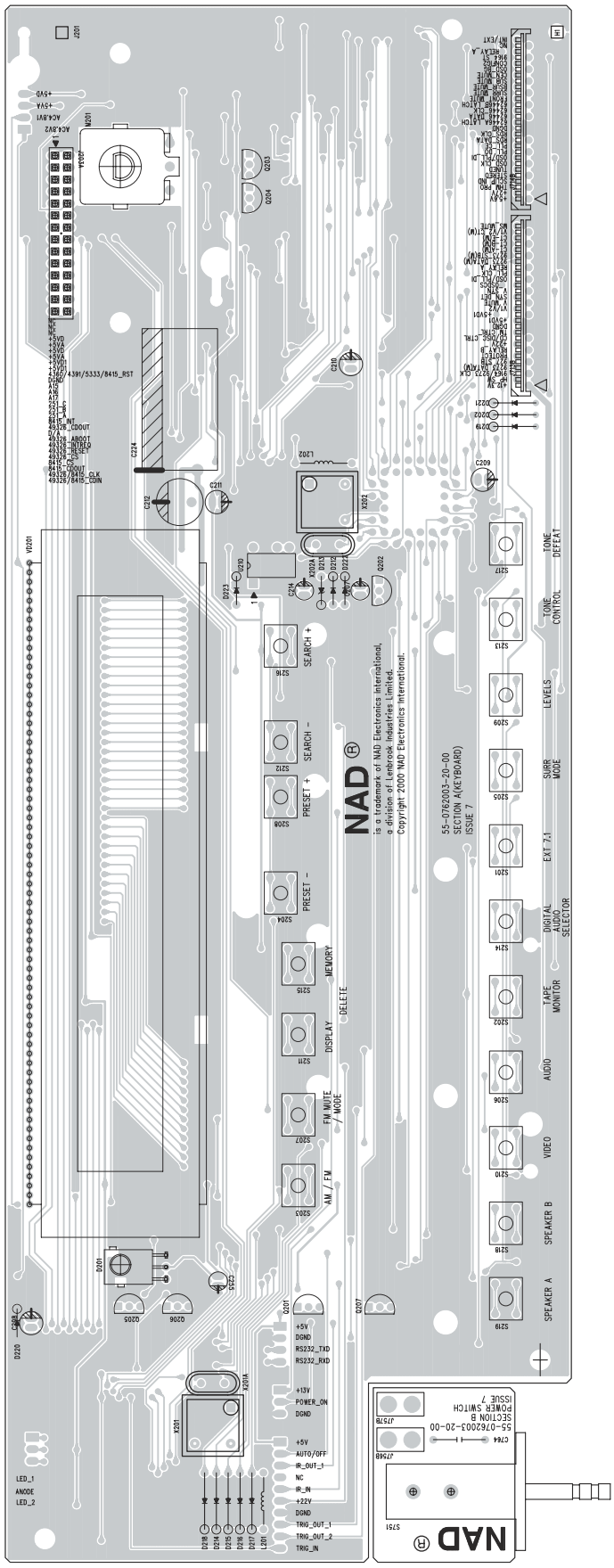
FRONT/CENTER AMPLIFIER BOARD



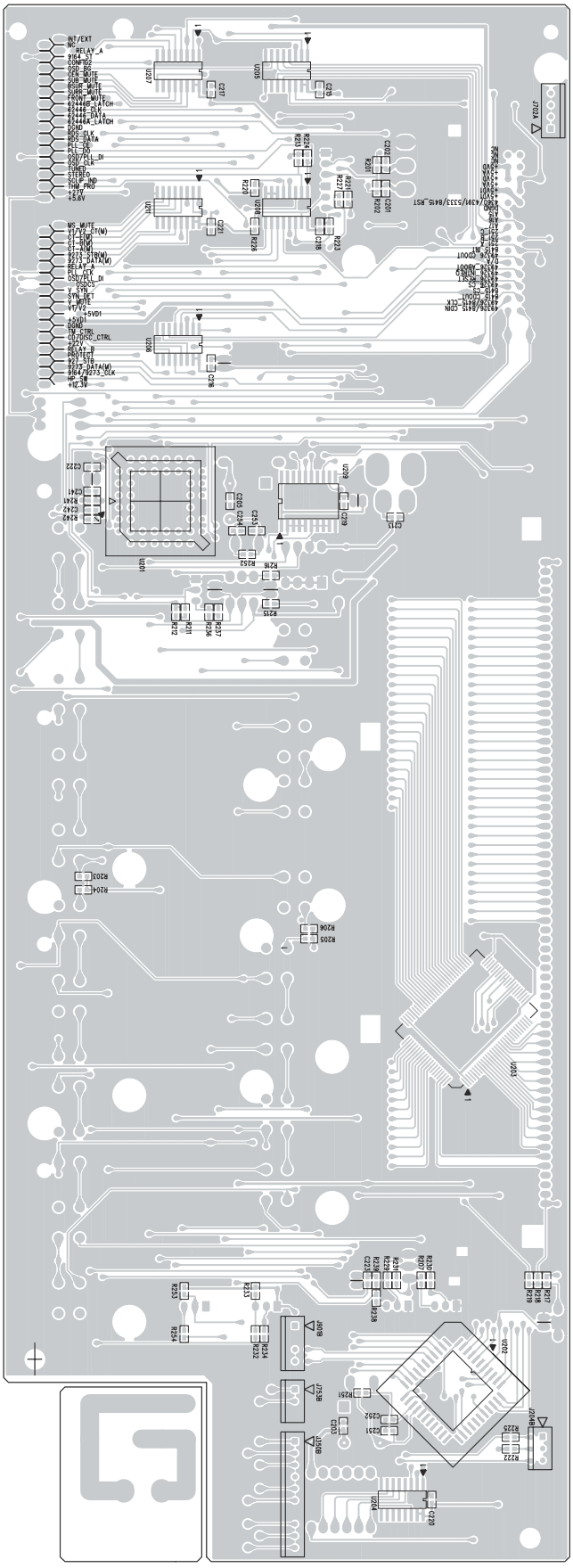
SURROUND AMPLIFIER BOARD



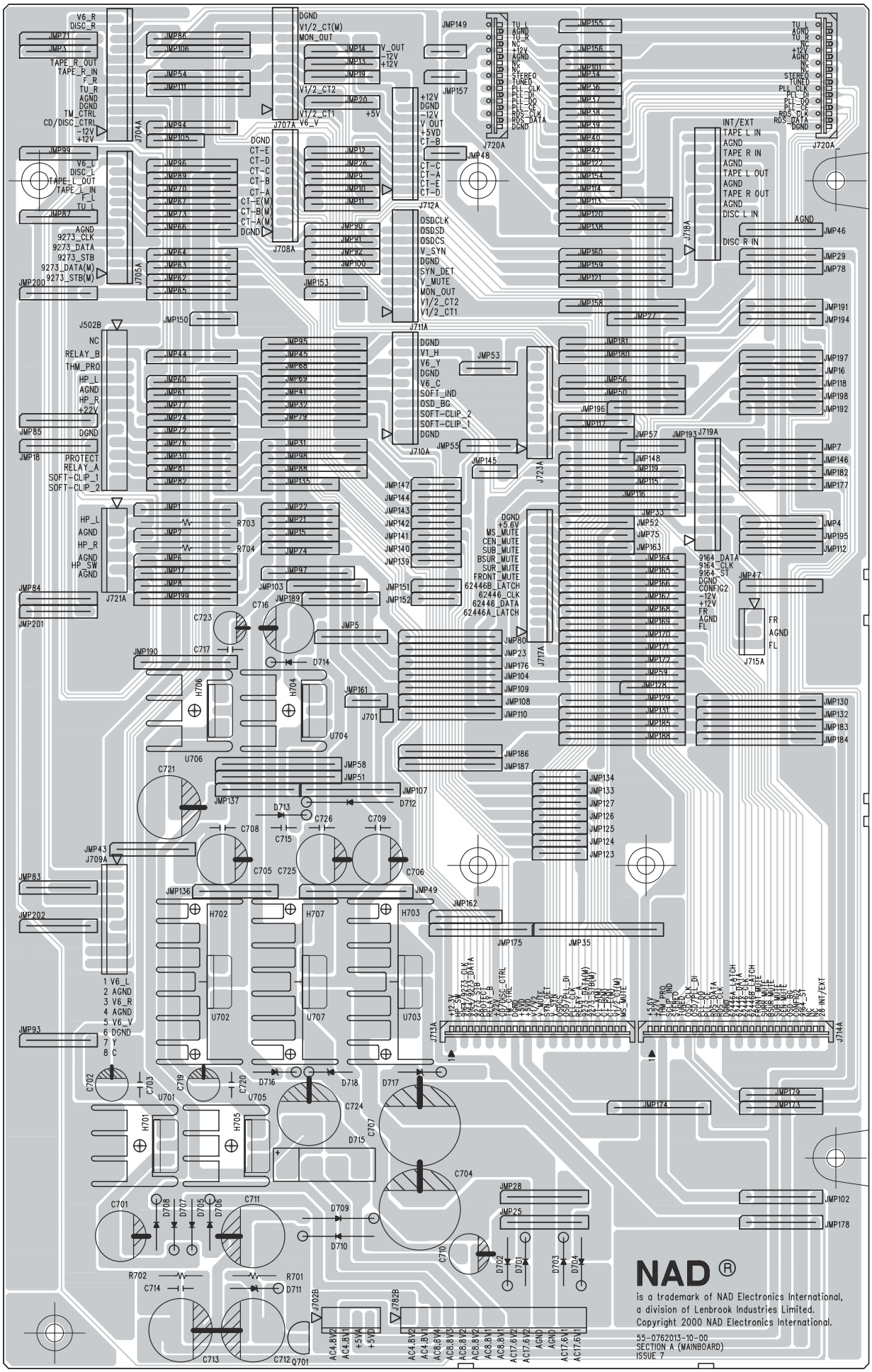
KEY BOARD/POWER SWITCH - COMPONENT SIDE



KEY BOARD/POWER SWITCH - COPPER SIDE



MAIN BOARD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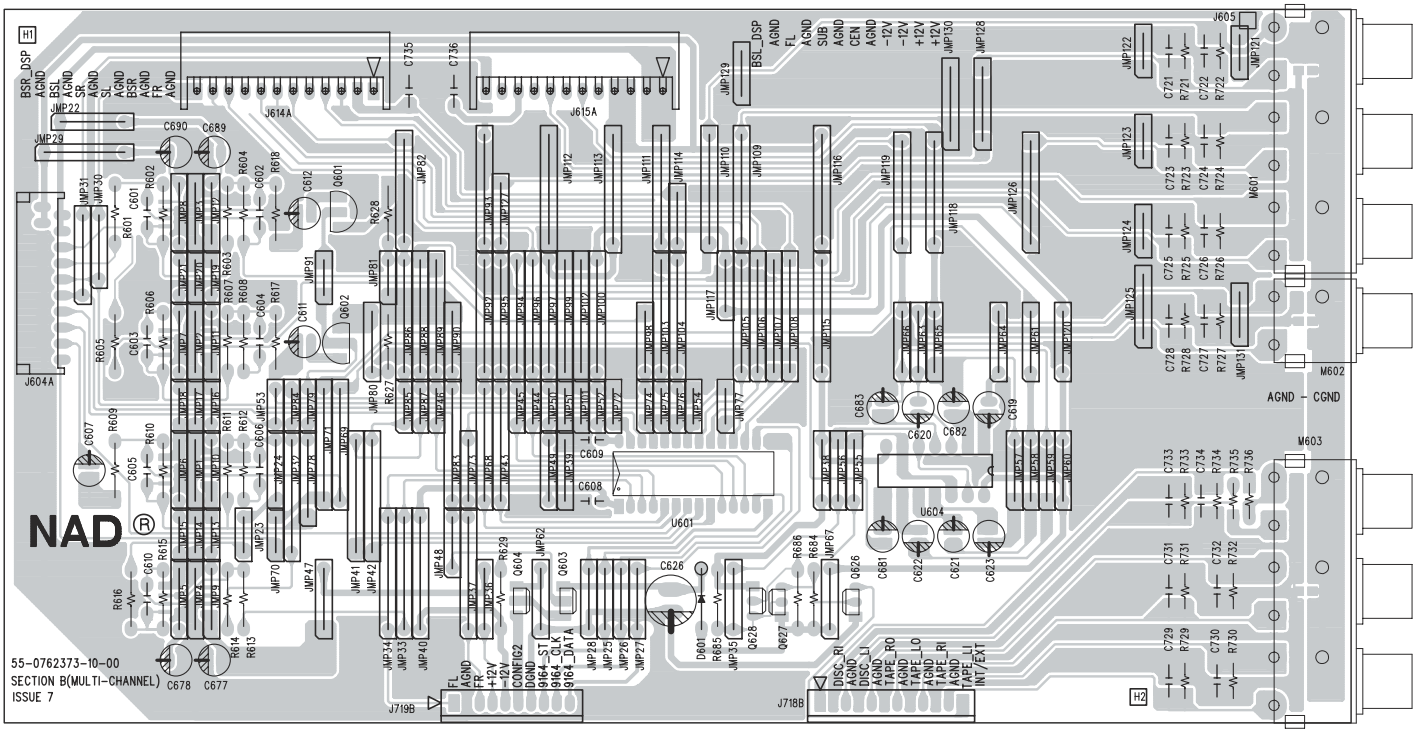
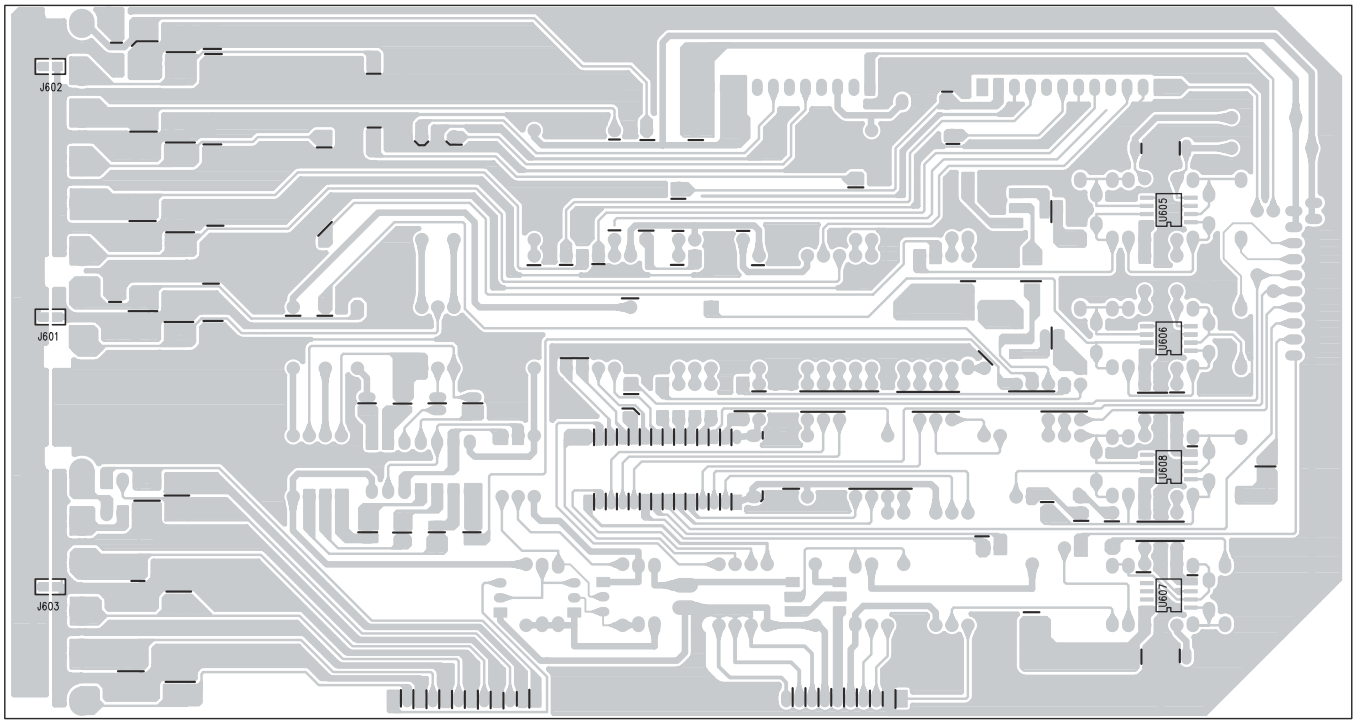
55-0762013-10-00
SECTION A (MAINBOARD)
ISSUE 7

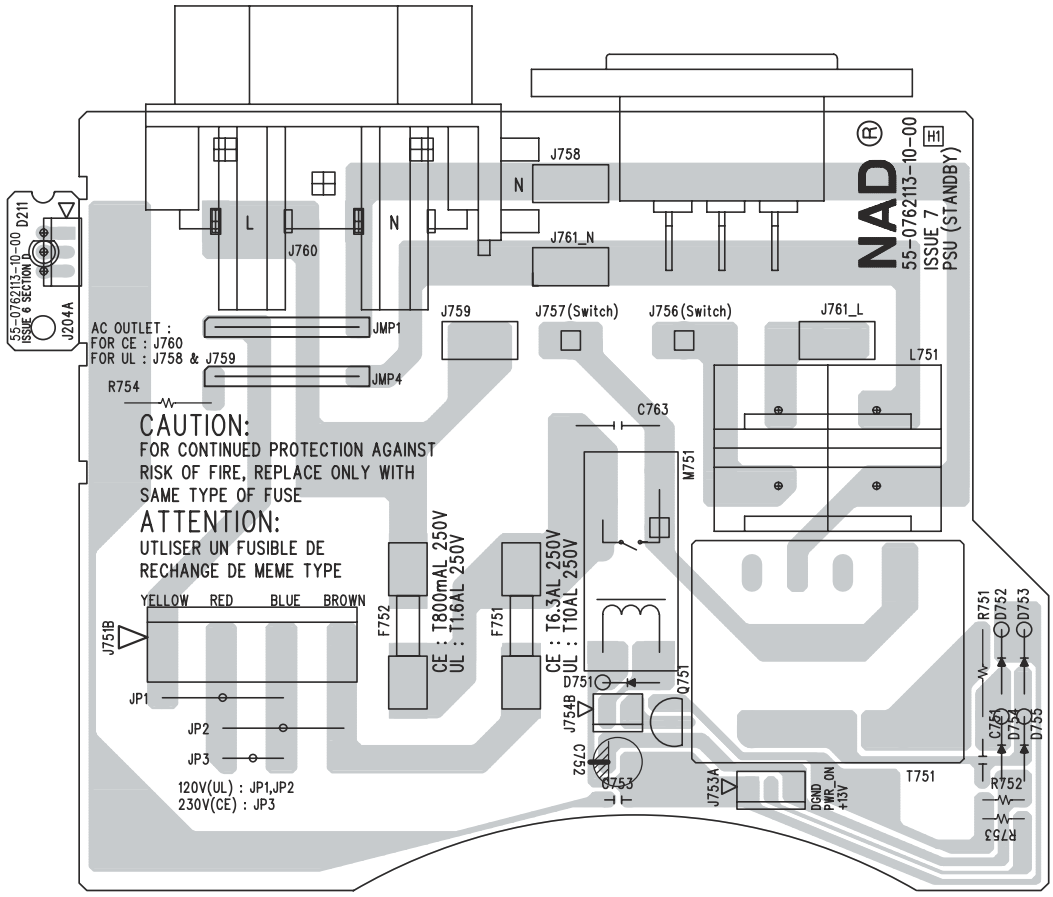
MULTI-CHANNEL BOARD - COMPONENT SIDE



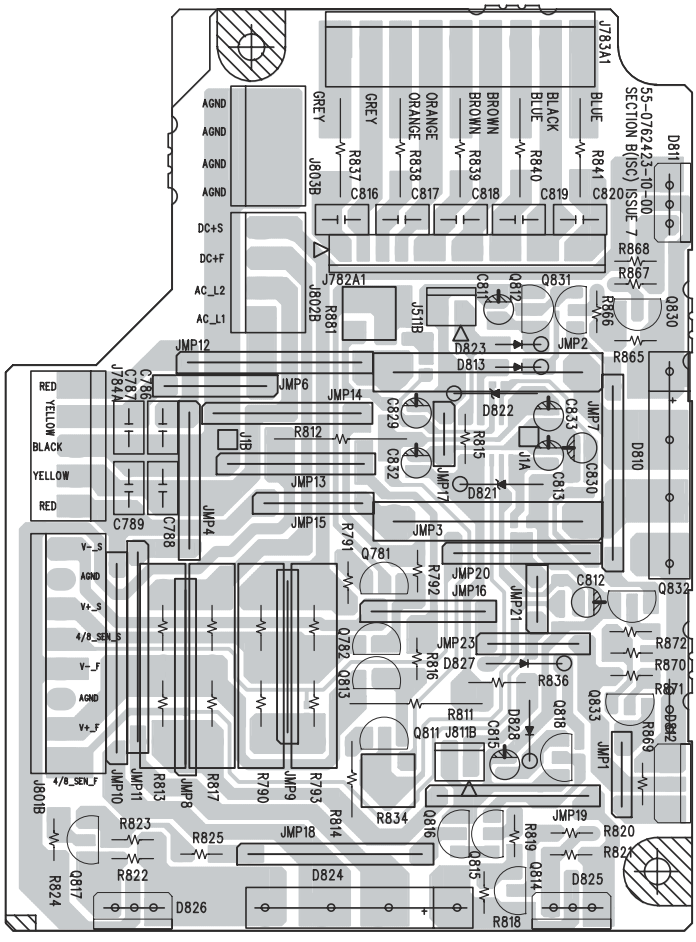
MULTI-CHANNEL BOARD - COPPER SIDE



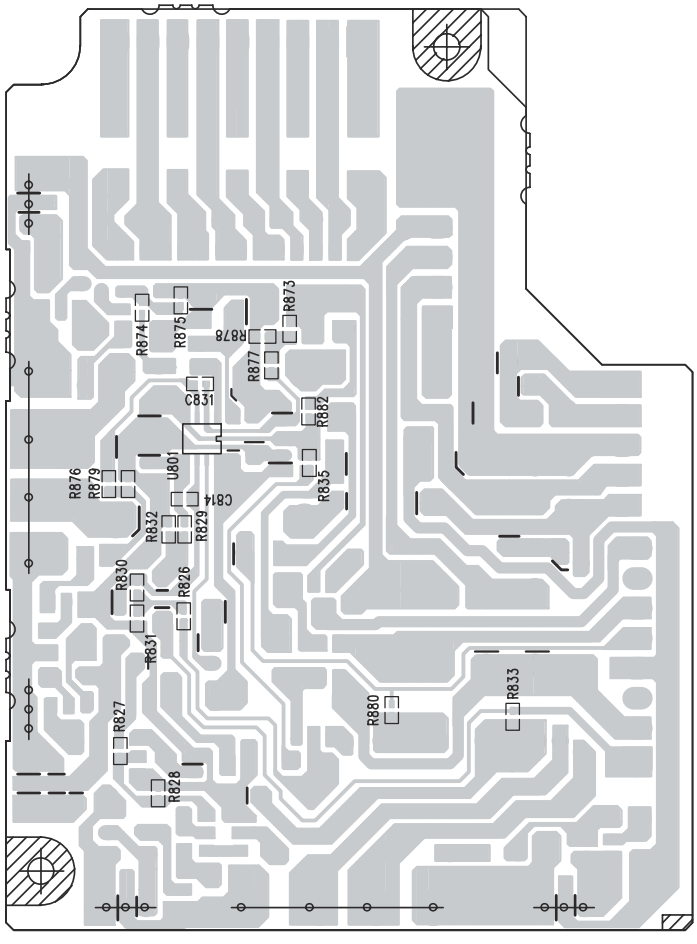
POWER SUPPLY (STANDBY) / LED BOARD



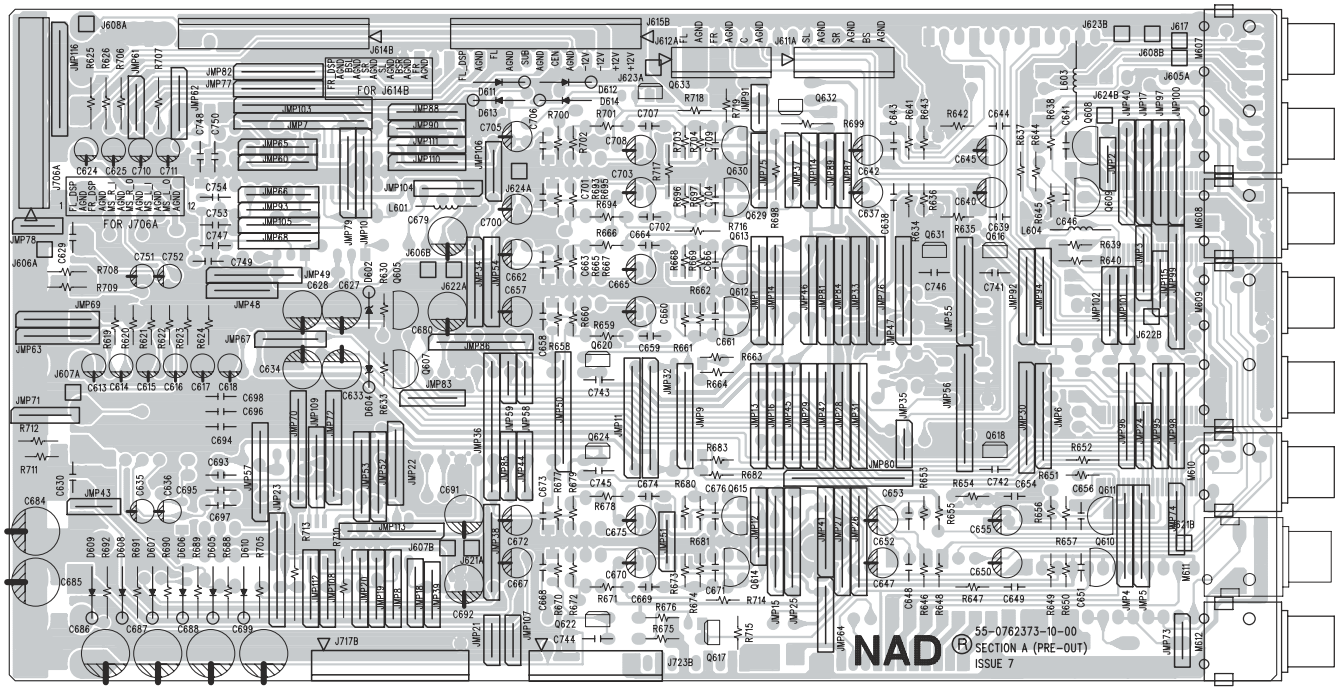
ISC BOARD
- COMPONENT SIDE



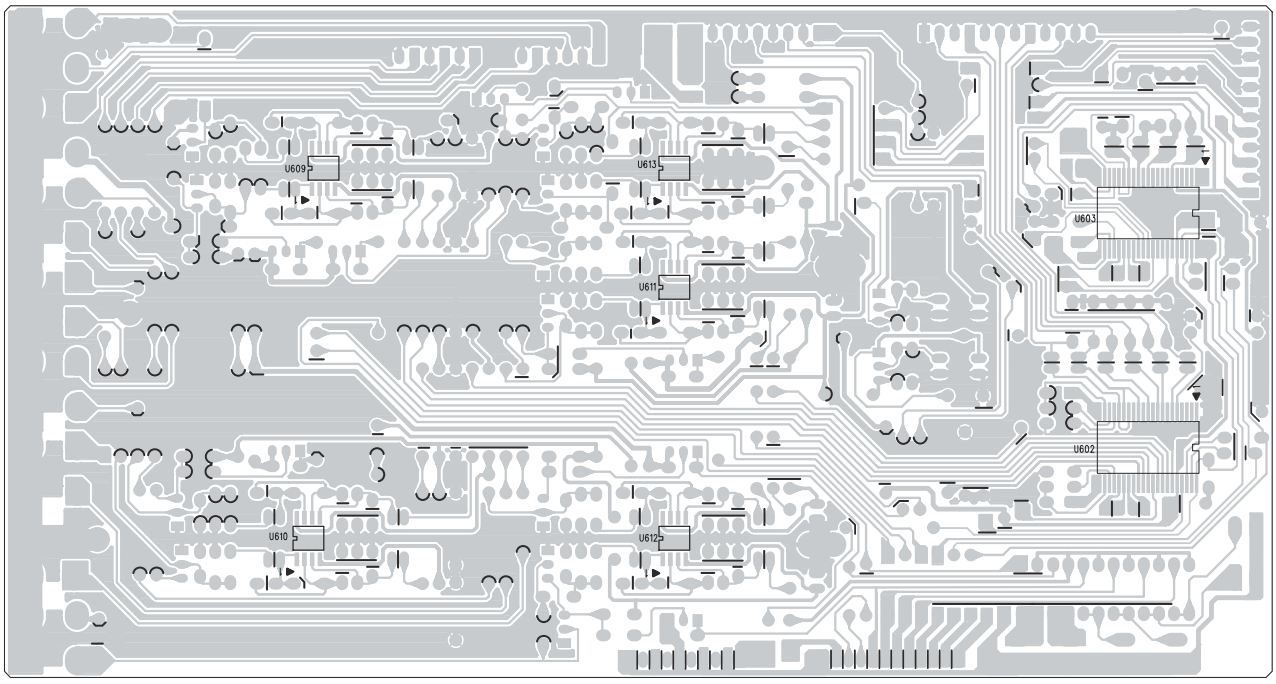
ISC BOARD
- COPPER SIDE



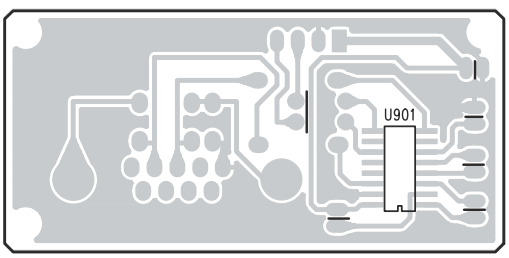
PRE-OUT BOARD - COMPONENT SIDE



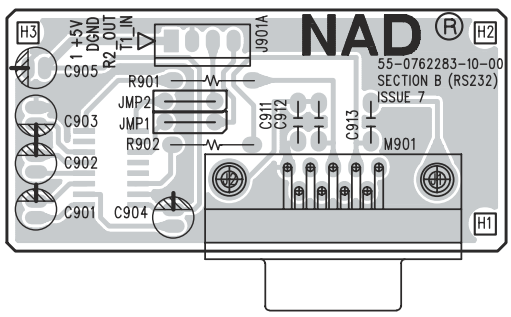
PRE-OUT BOARD - COPPER SIDE



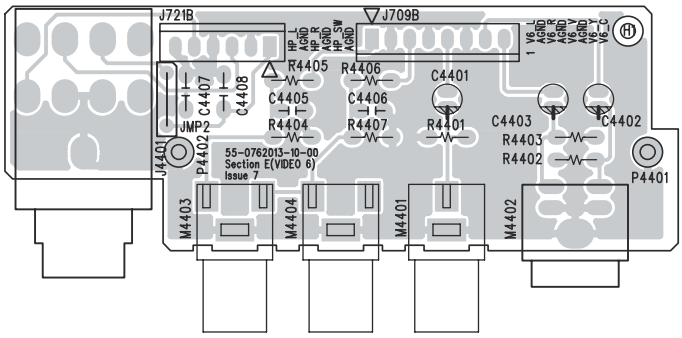
RS-232 BOARD
- COPPER SIDE



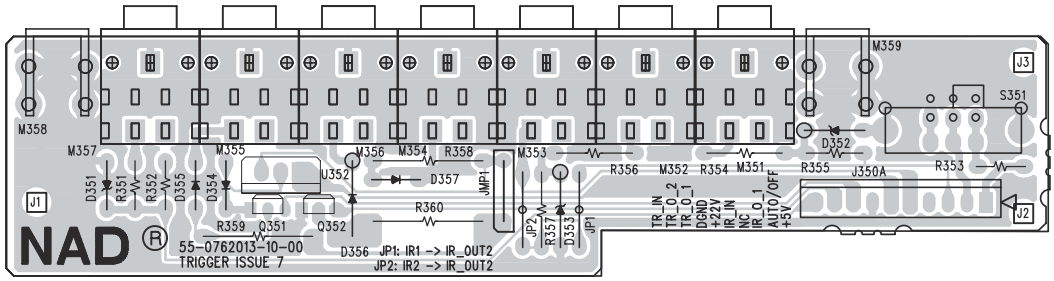
- COMPONENT SIDE



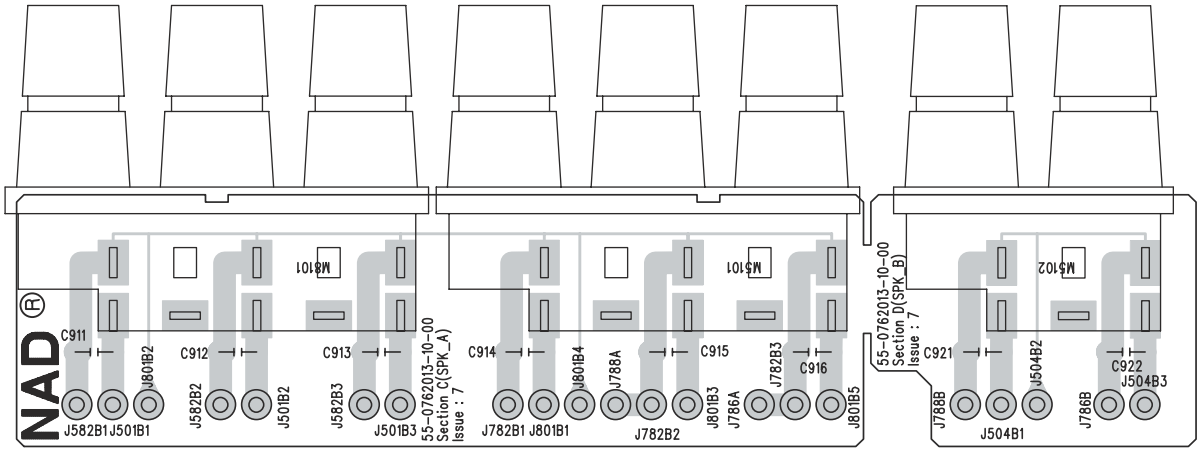
VIDEO 6 BOARD



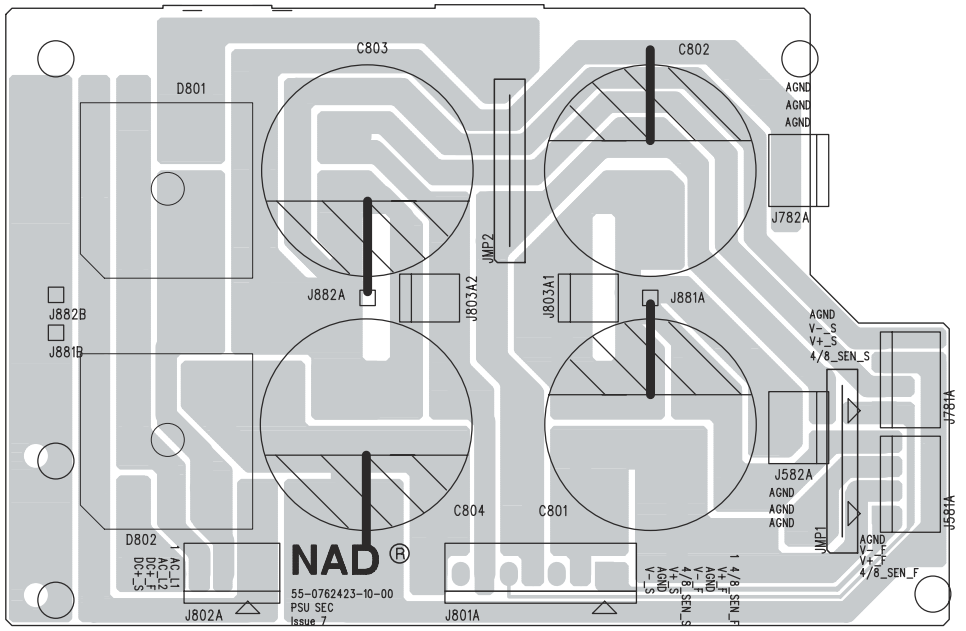
TRIGGER BOARD



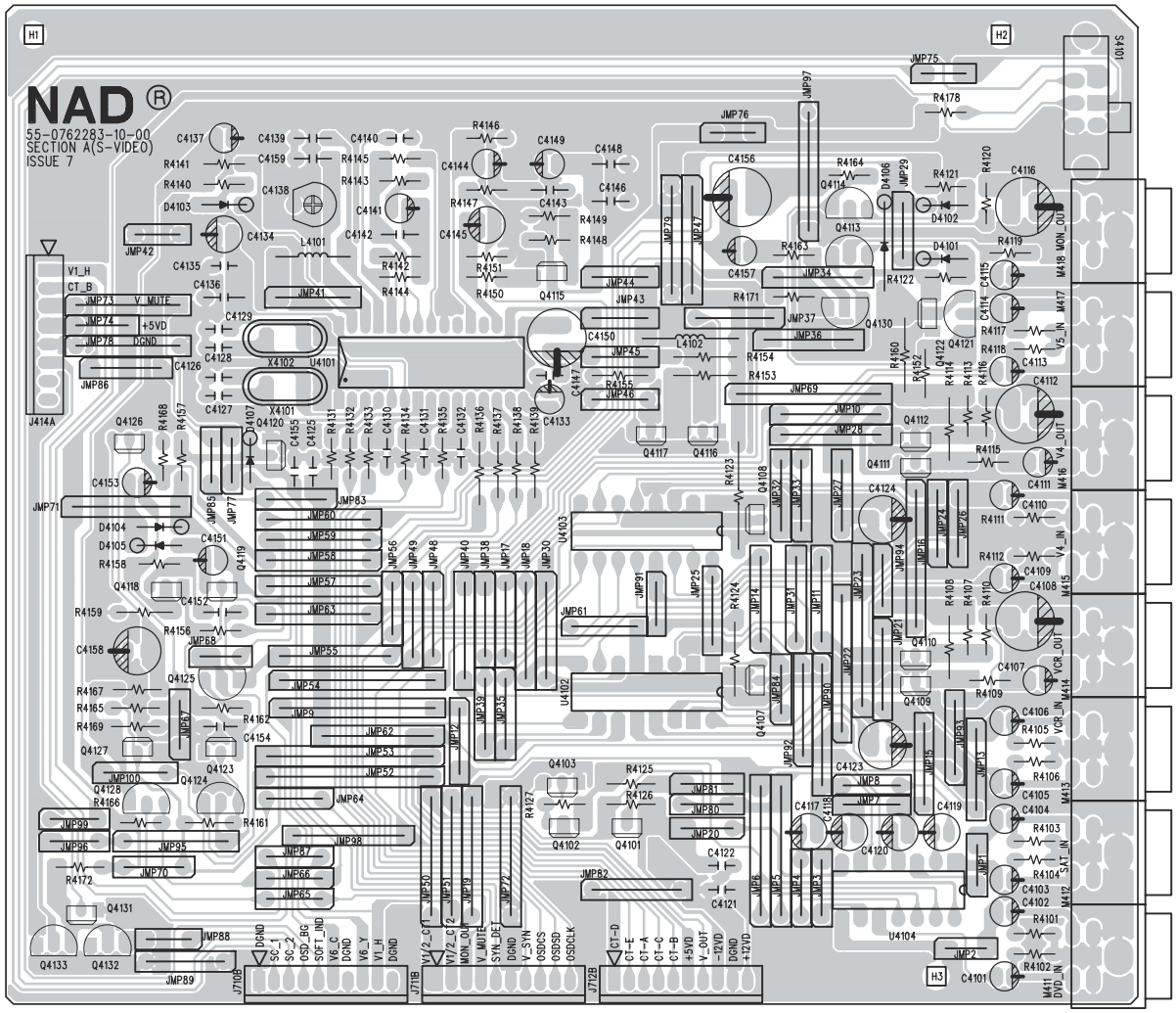
SPEAKER TERMINAL BOARD



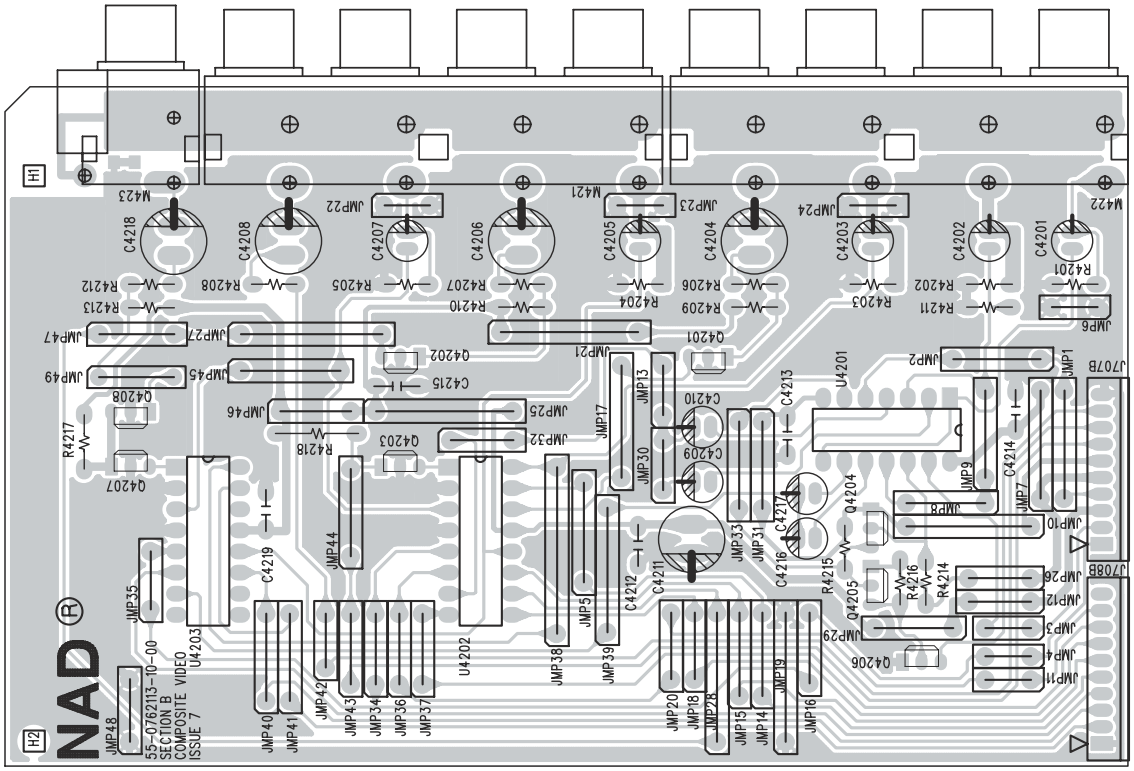
SECONDARY BOARD



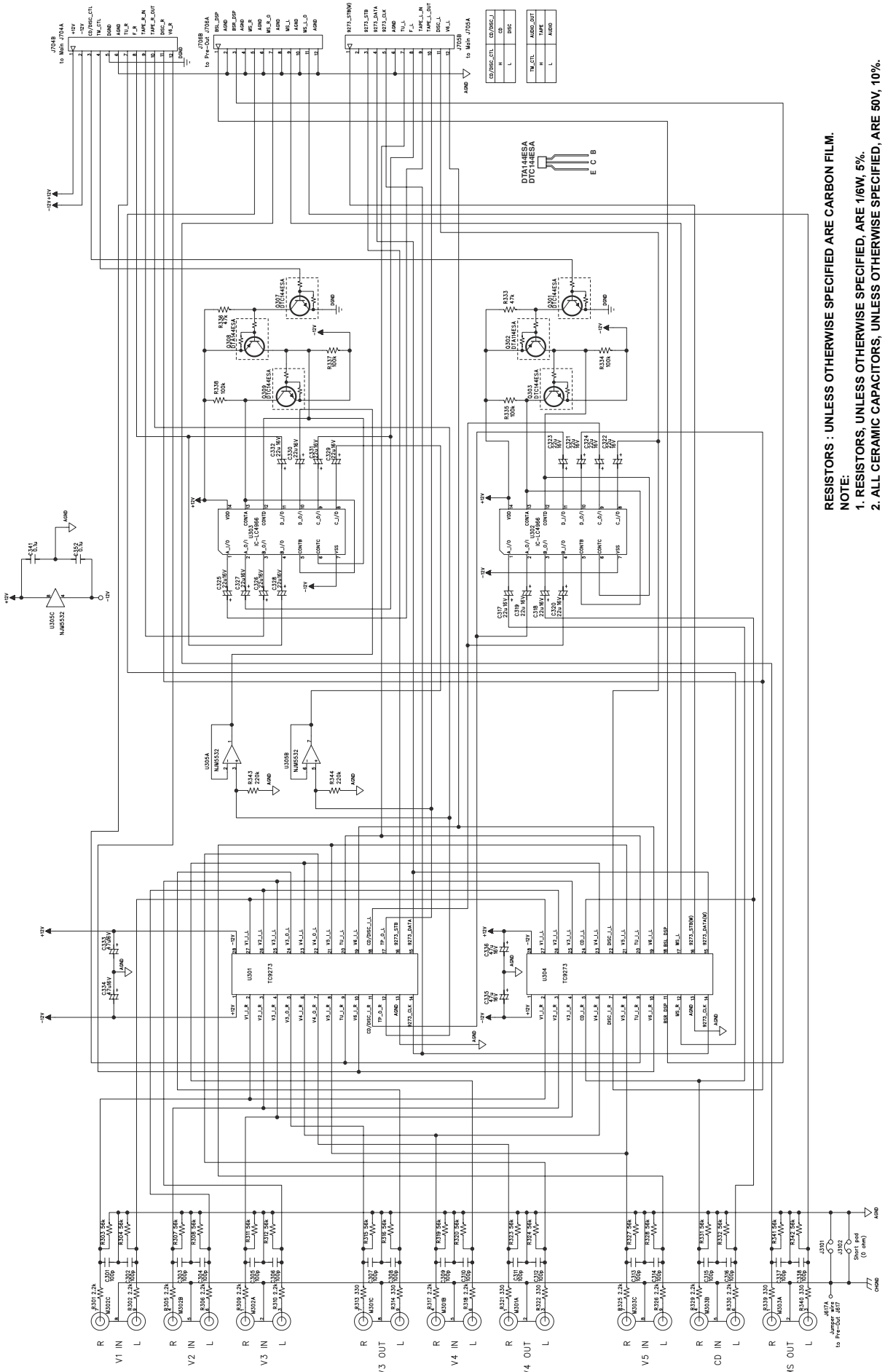
S-VIDEO BOARD



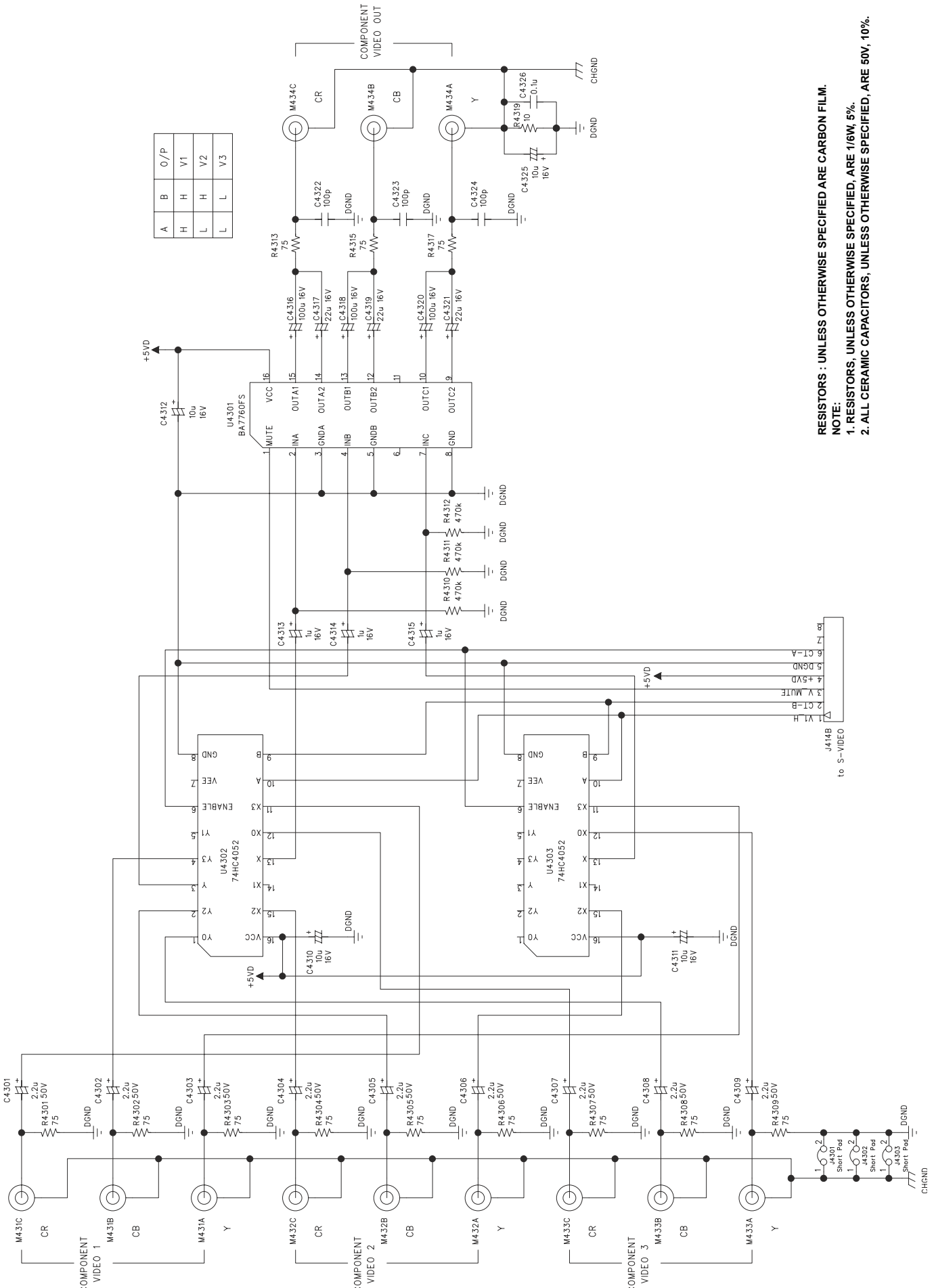
COMPOSITE VIDEO BOARD



SCHEMATIC DIAGRAM
AUDIO SWITCH

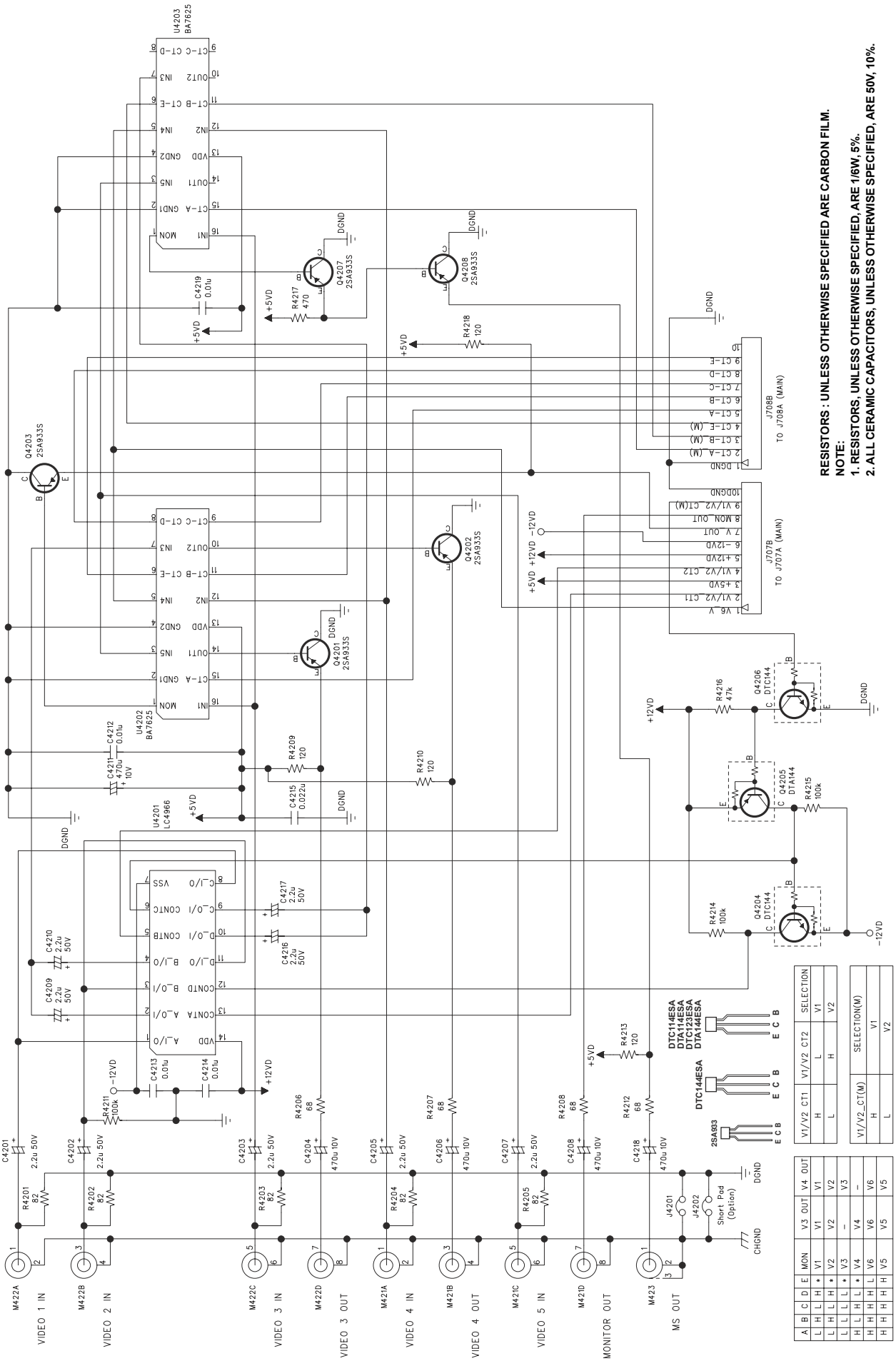


COMPONENT VIDEO

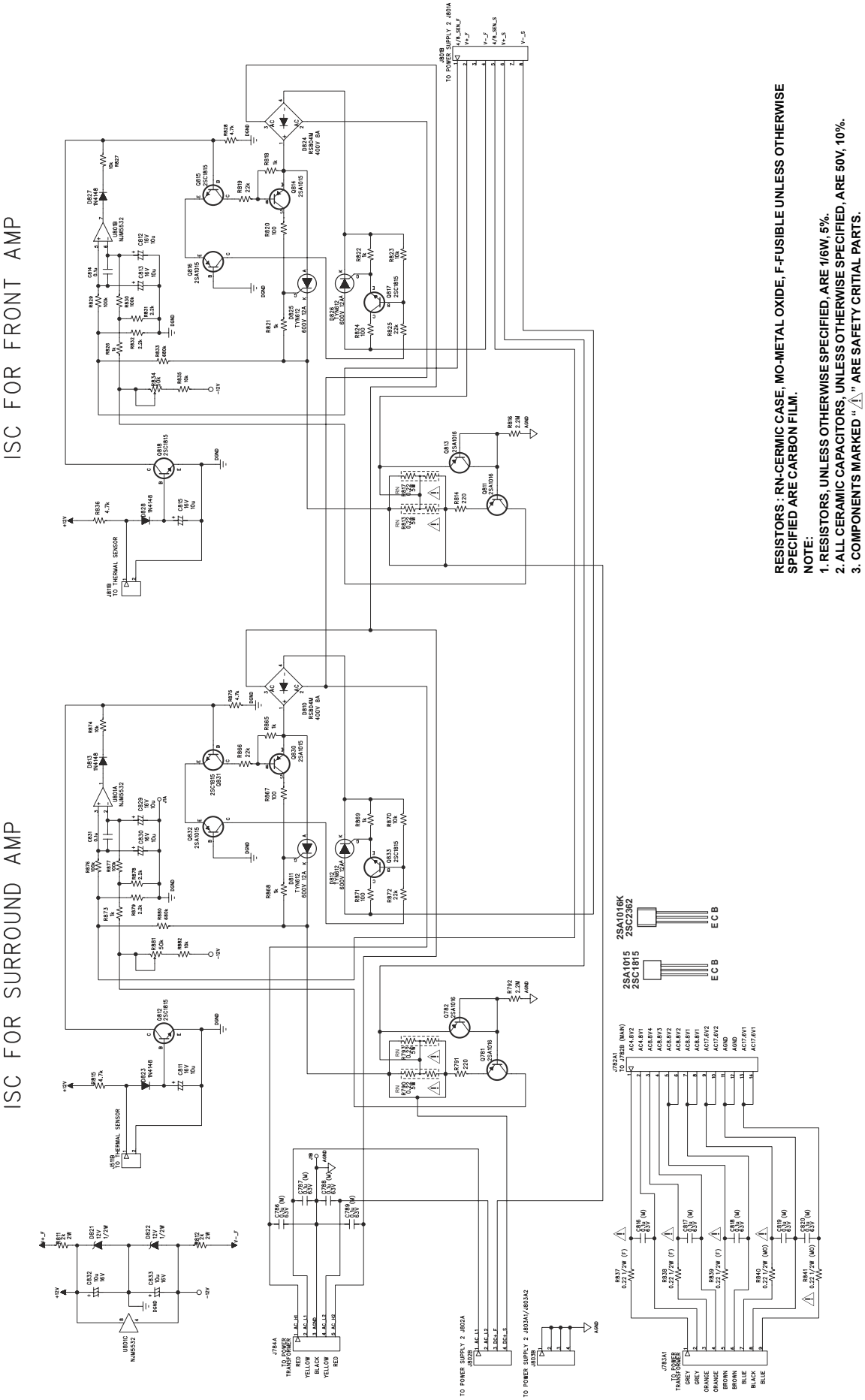


RESISTORS : UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.
NOTE:
1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

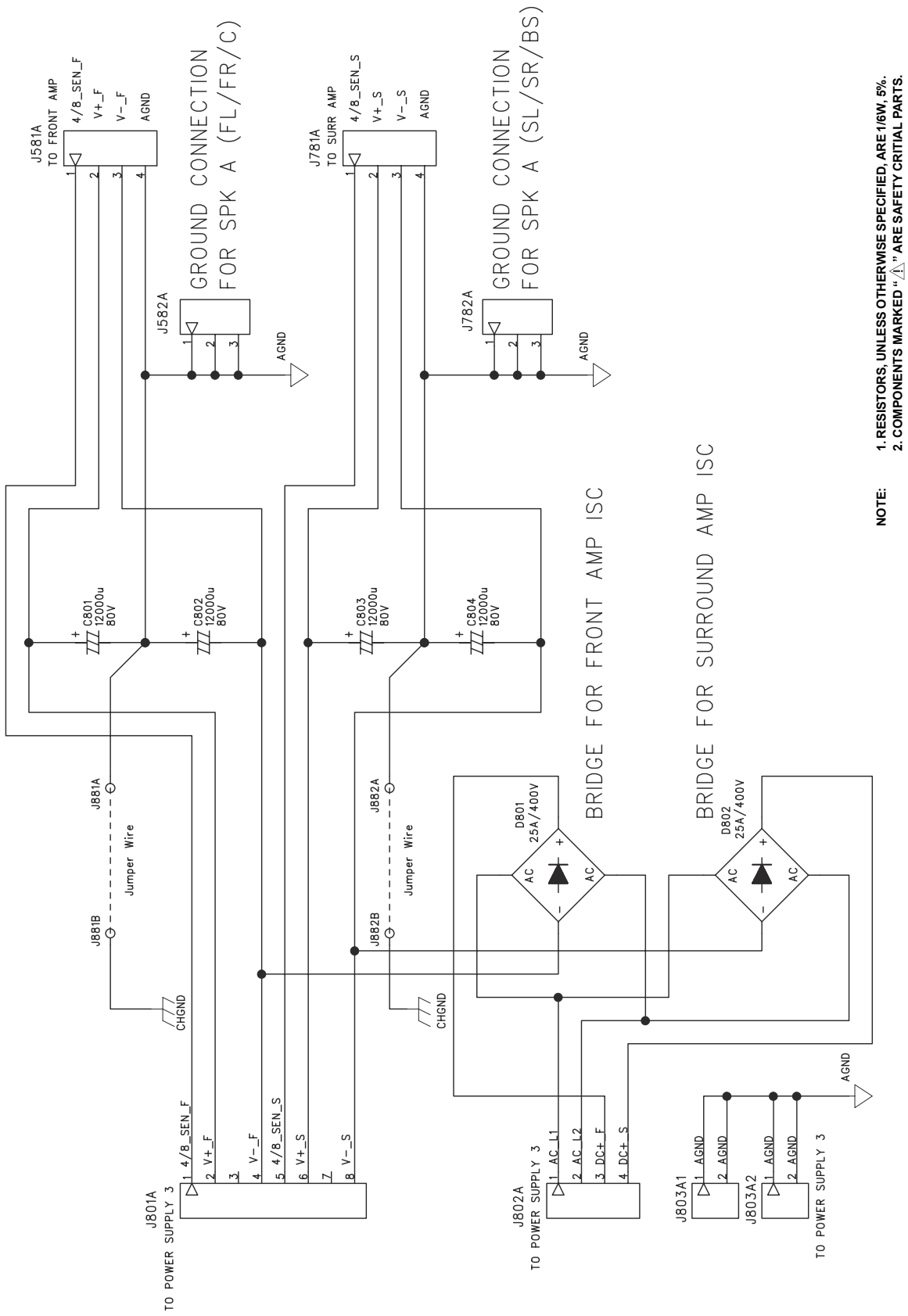
COMPOSITE VIDEO



ISC

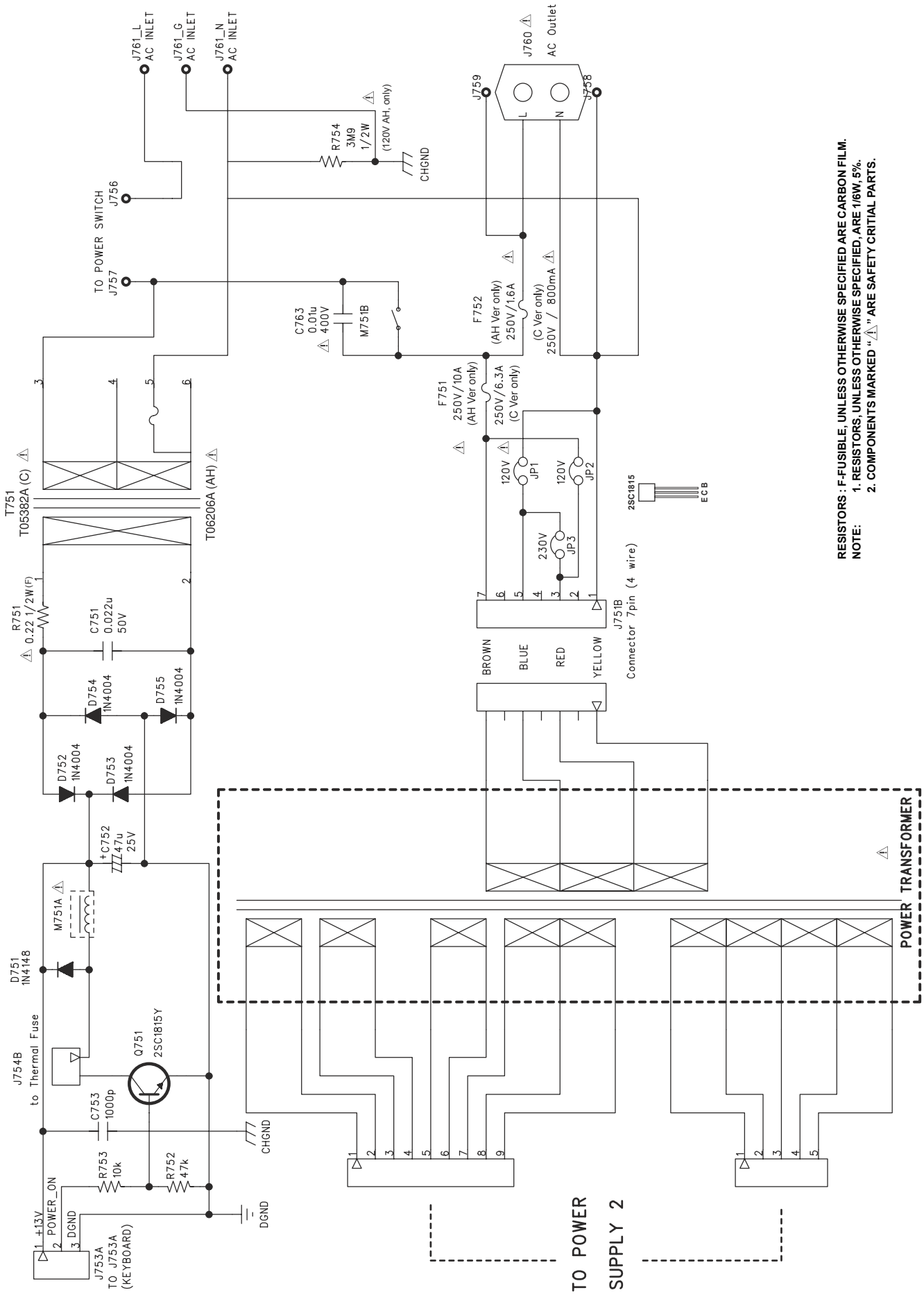

ISC FOR FRONT AMP
ISC FOR SURROUND AMP
RESISTORS : RN-CERMIC CASE, MO-METAL OXIDE, F-FUSIBLE UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.
NOTE:
1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.
3. COMPONENTS MARKED " ⚠ " ARE SAFETY CRITIAL PARTS.
2SA1016K
2SC2362
2SA1015
2SC1815
TO POWER SUPPLY 2 J803A
TO POWER SUPPLY 2 J803A1/J803A2
TO THERMAL SENSOR
TO POWER TRANSFORMER

POWER SUPPLY (SECONDARY)



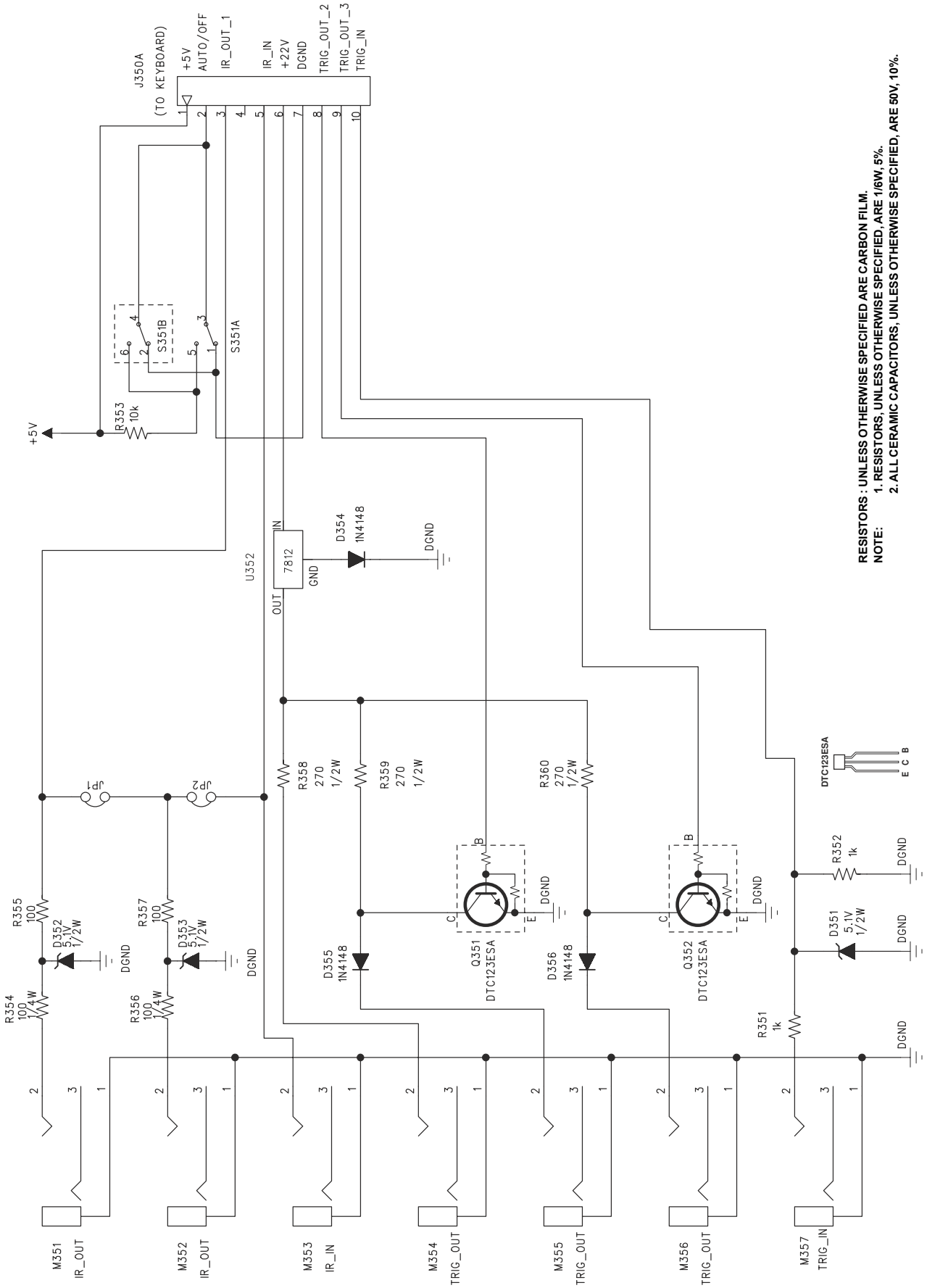
NOTE: **1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.**
2. COMPONENTS MARKED "⚠" ARE SAFETY CRITIAL PARTS.

POWER SUPPLY (STAND BY)



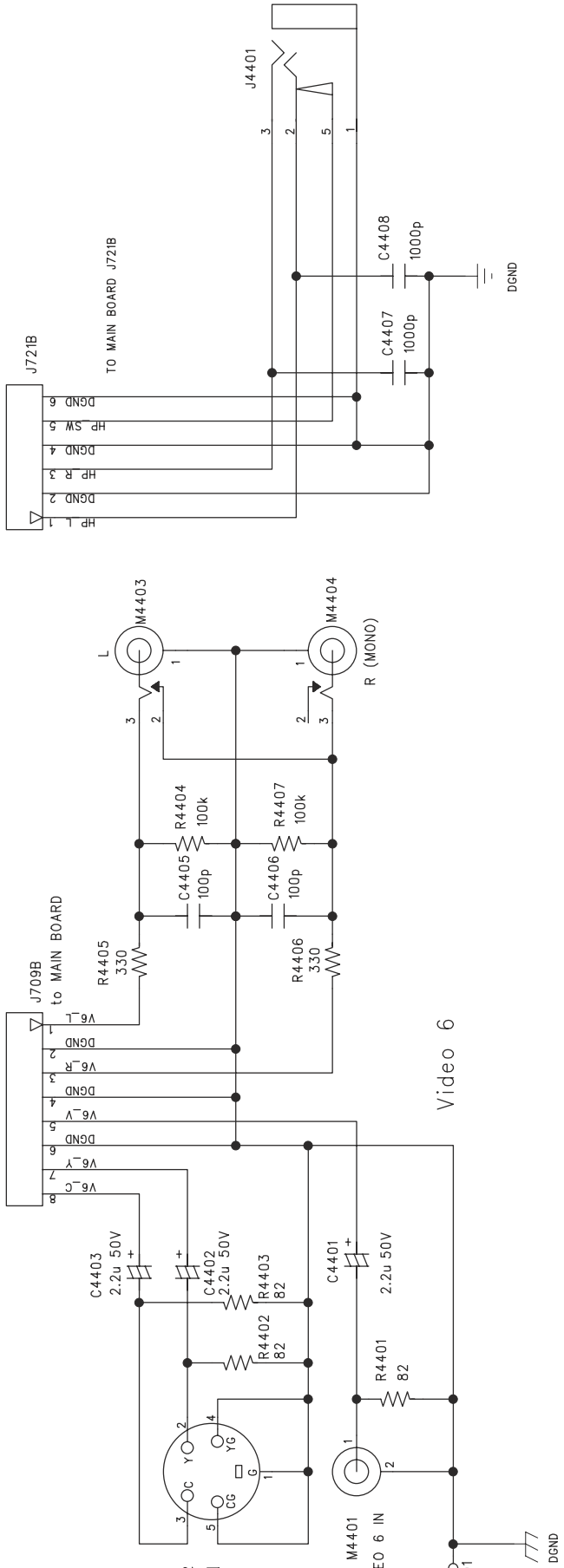
RESISTORS : F-FUSIBLE, UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.
NOTE: 1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. COMPONENTS MARKED "⚠" ARE SAFETY CRITIAL PARTS.

TRIGGER



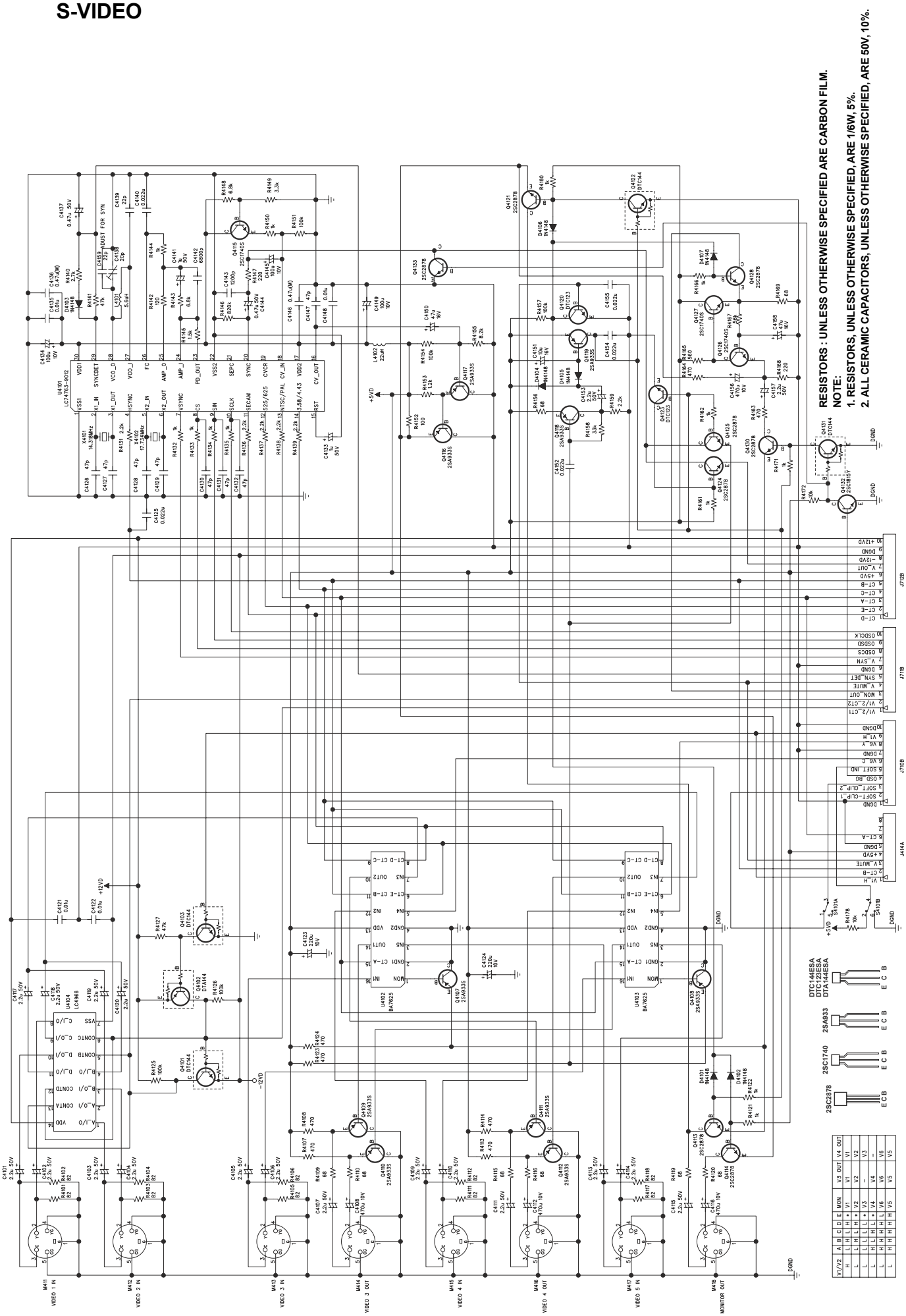
RESISTORS : UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.
NOTE: 1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

VIDEO 6

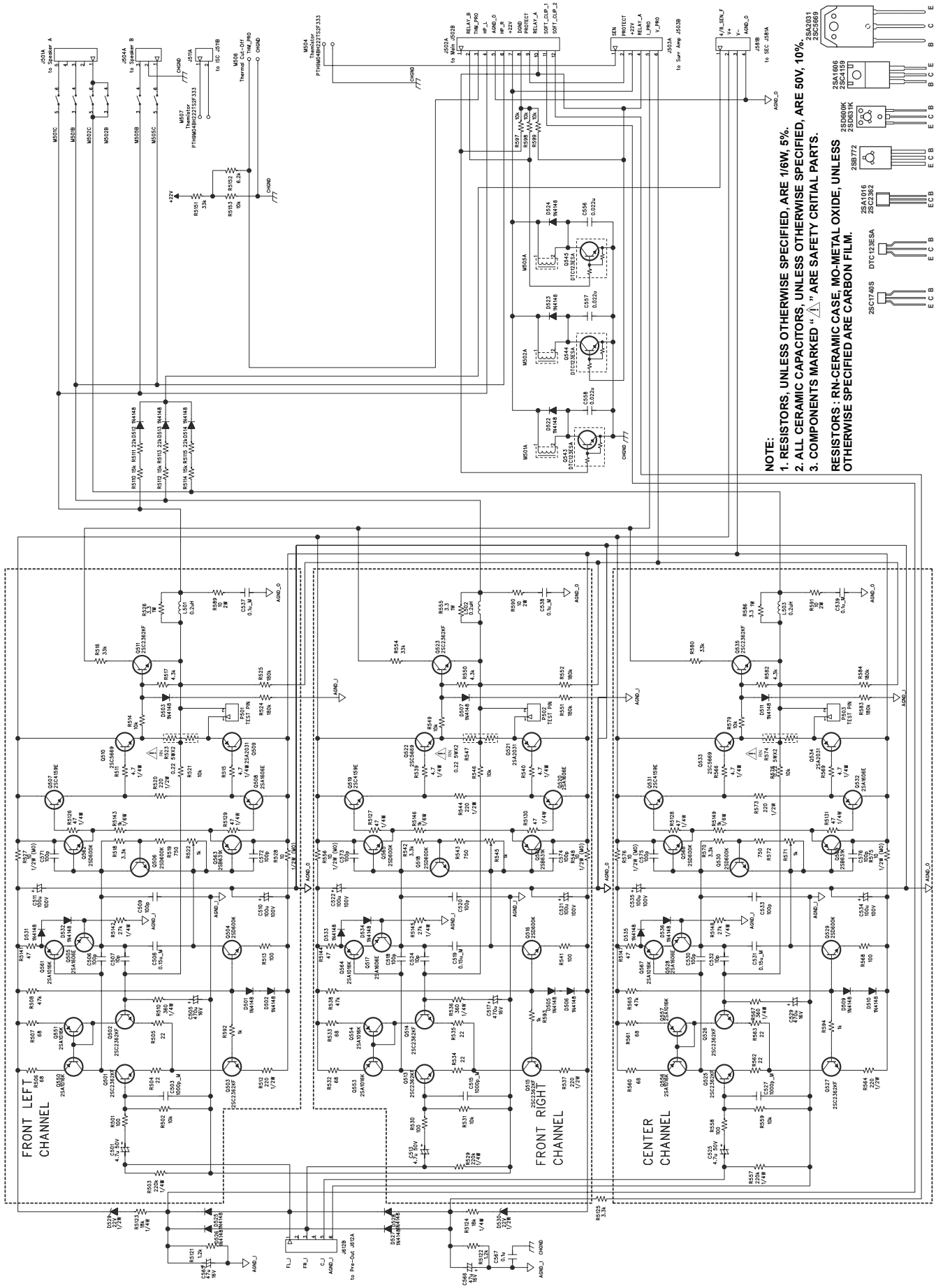


RESISTORS : UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.
NOTE:
1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

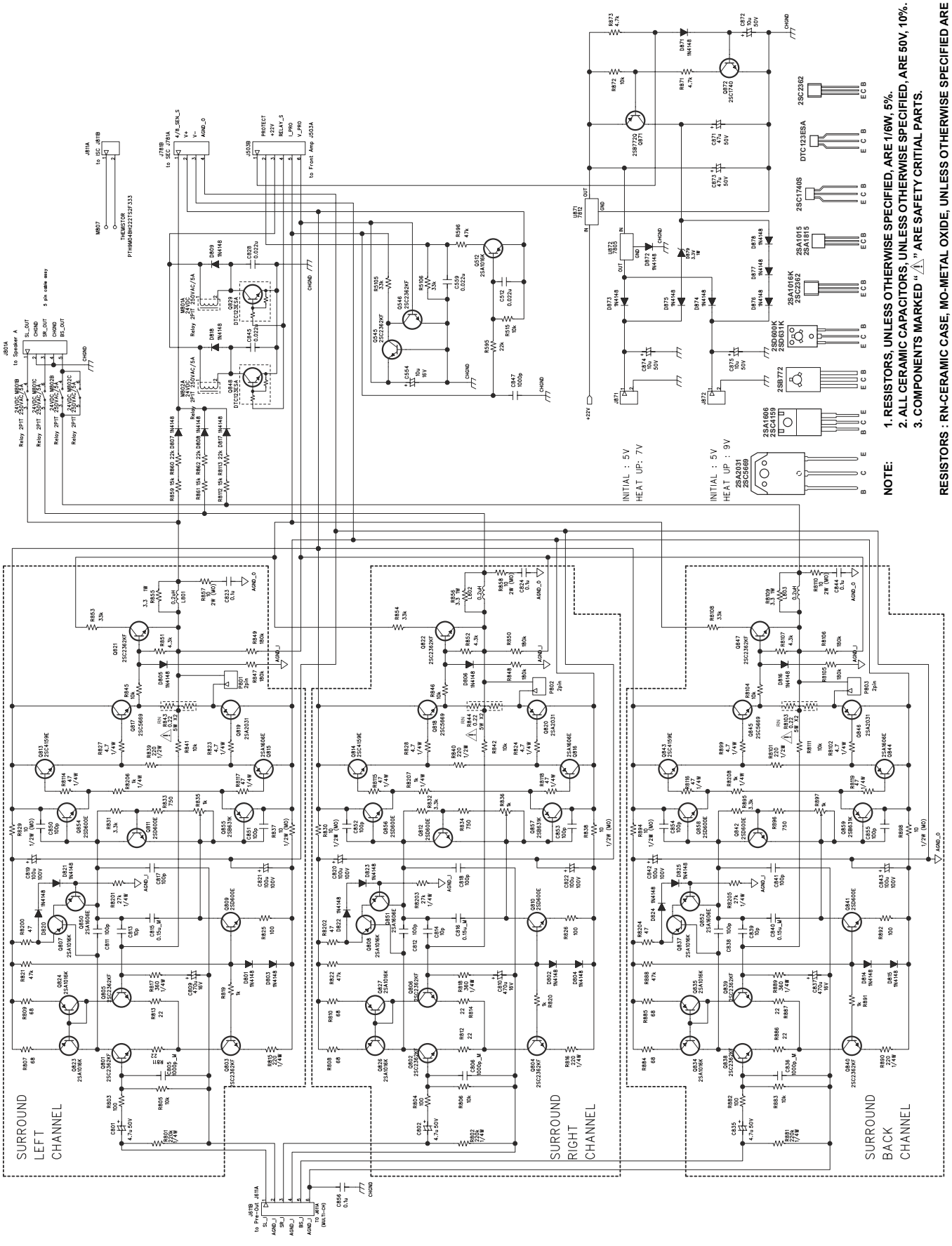
S-VIDEO


RESISTORS : UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.
NOTE:
1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.
VIDEO 1 IN
VIDEO 2 IN
VIDEO 3 IN
VIDEO 3 OUT
VIDEO 4 IN
VIDEO 4 OUT
VIDEO 5 IN
MONITOR OUT
TO J712A (MAIN)
TO J711A (MAIN)
TO J709A (MAIN)
TO J444 (COMPONENT VIDEO)
DTC144ESA
DTC123ESA
DTA144ESA
2SA933
2SC1740
2SC2878

FRONT / CENTER AMPLIFIER


NOTE:
1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.
3. COMPONENTS MARKED " ⚠ " ARE SAFETY CRITIAL PARTS.
RESISTORS : RN-CERAMIC CASE, MO-METAL OXIDE, UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.
FRONT LEFT CHANNEL
FRONT RIGHT CHANNEL
CENTER CHANNEL
2SA2031 2SC5669
2SA1606 2SC4159
2SD600K 2SB563K
2SB772
2SA1016 2SC2982
DTC123ESA
2SC1740S

SURROUND / BACK SURROUND AMPLIFIER

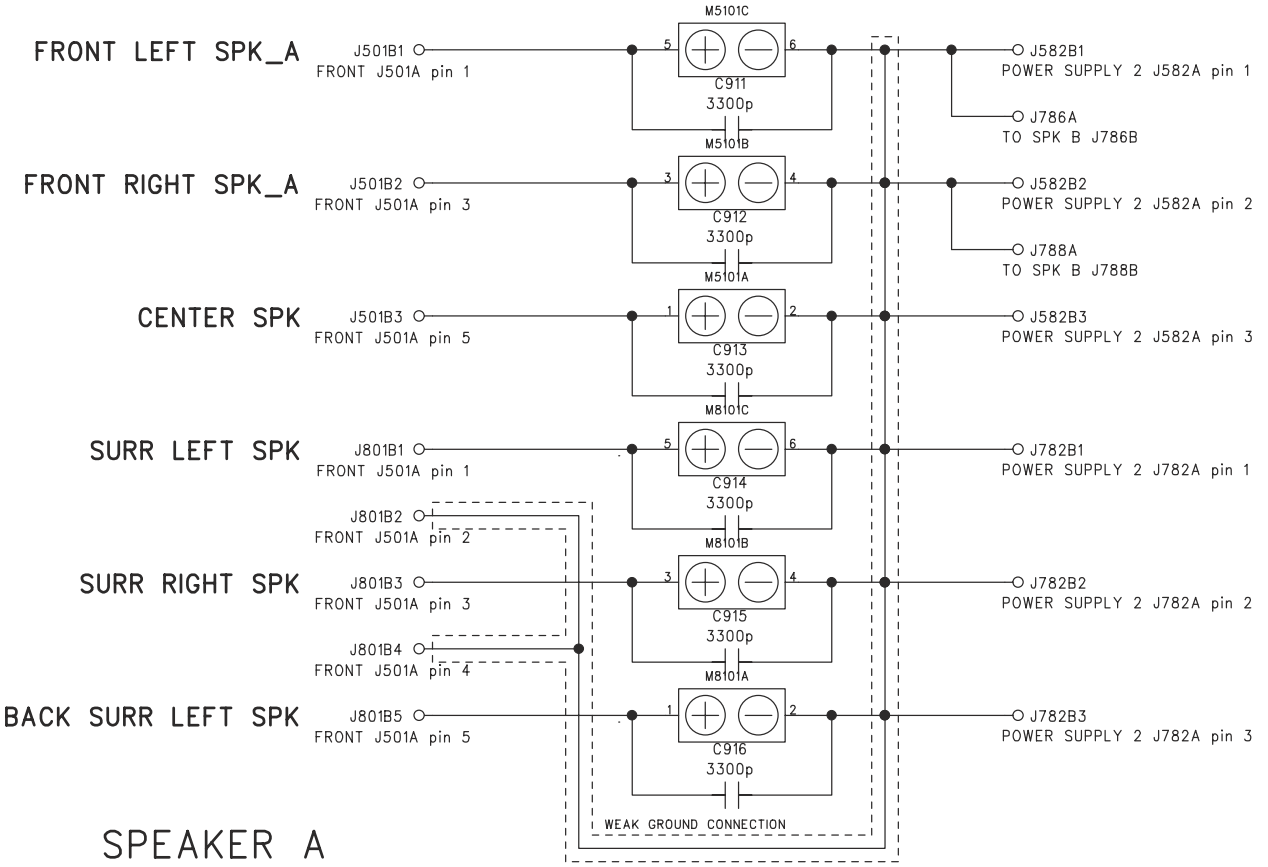


NOTE:

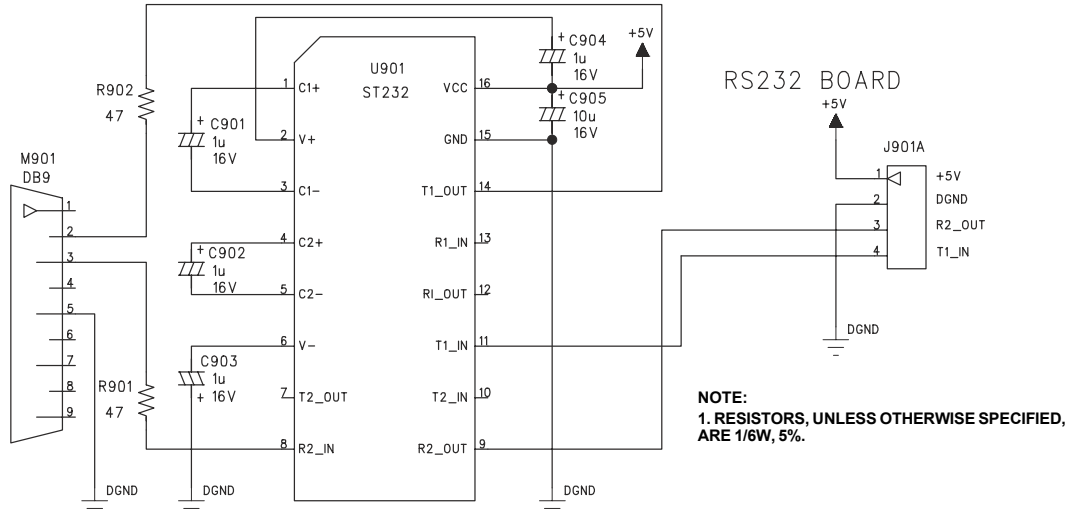
1. **RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.**
2. **ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.**
3. **COMPONENTS MARKED "⚠" ARE SAFETY CRITIAL PARTS.**

RESISTORS : RN-CERAMIC CASE, MO-METAL OXIDE, UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.

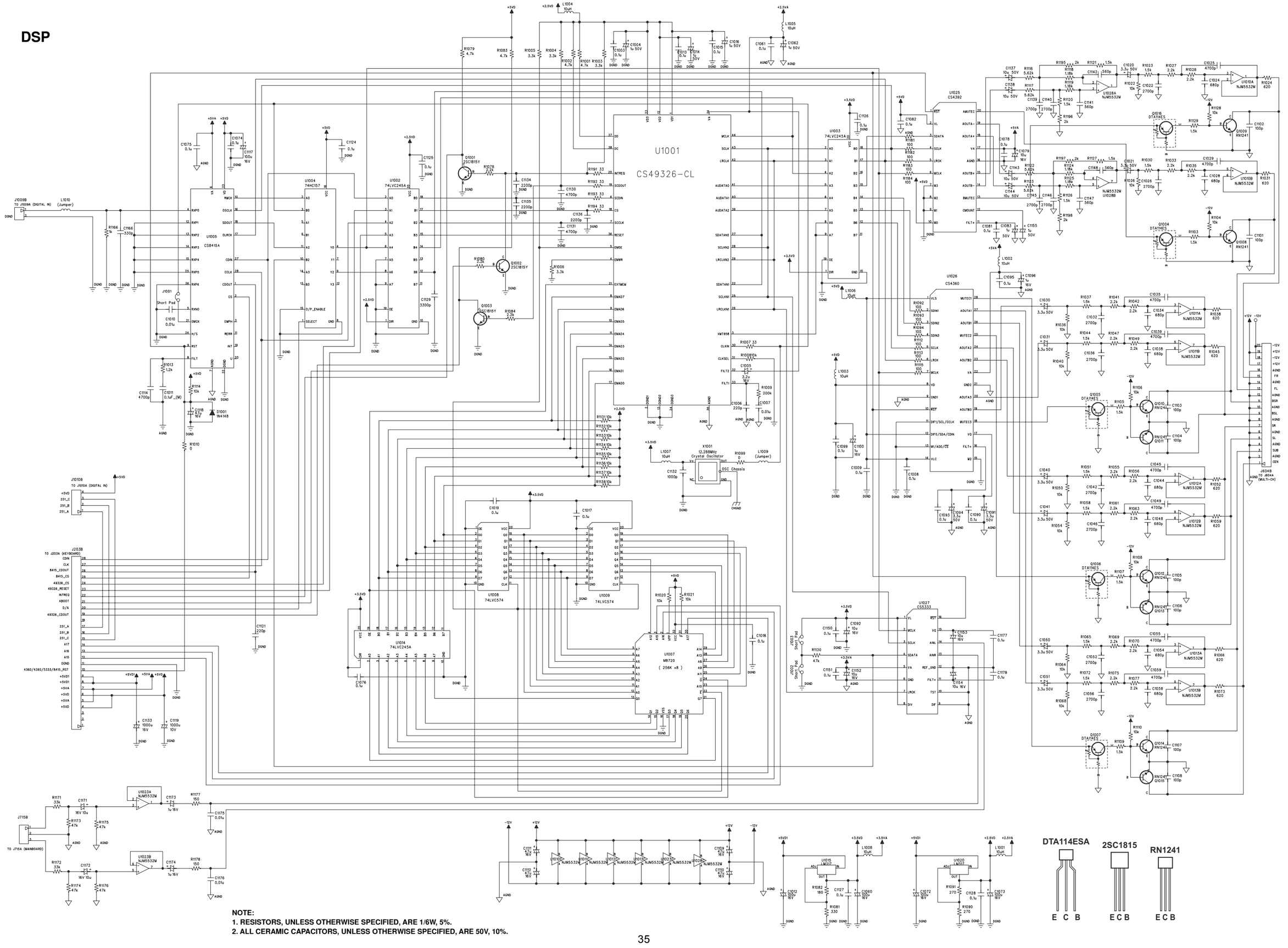
SPEAKER A & B



RS-232



DSP



NOTE:
1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

DTA114ESA — E C B

2SC1815 — E C B

RN1241 — E C B

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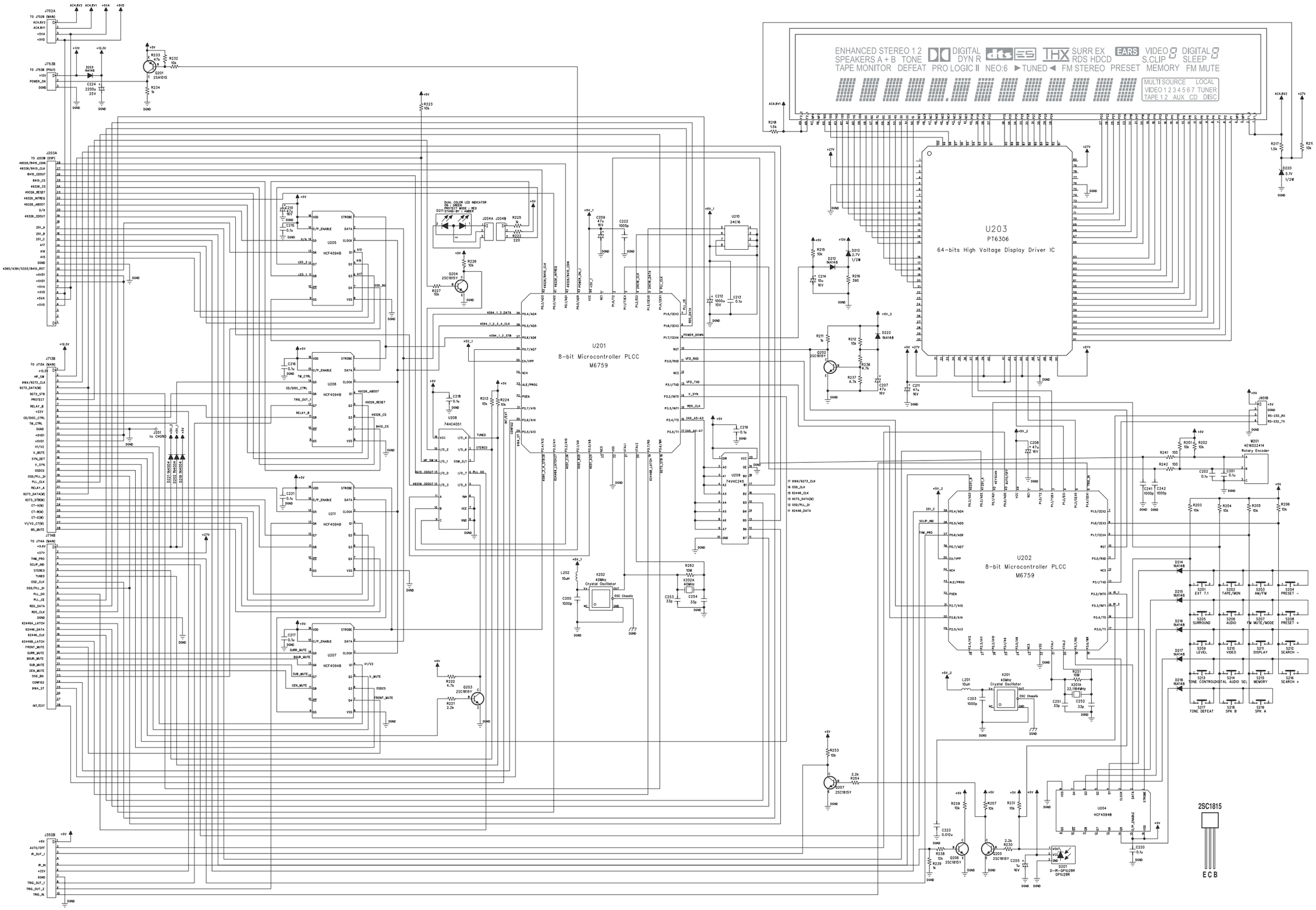
KEYBOARD



NOTE:
1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 5%.

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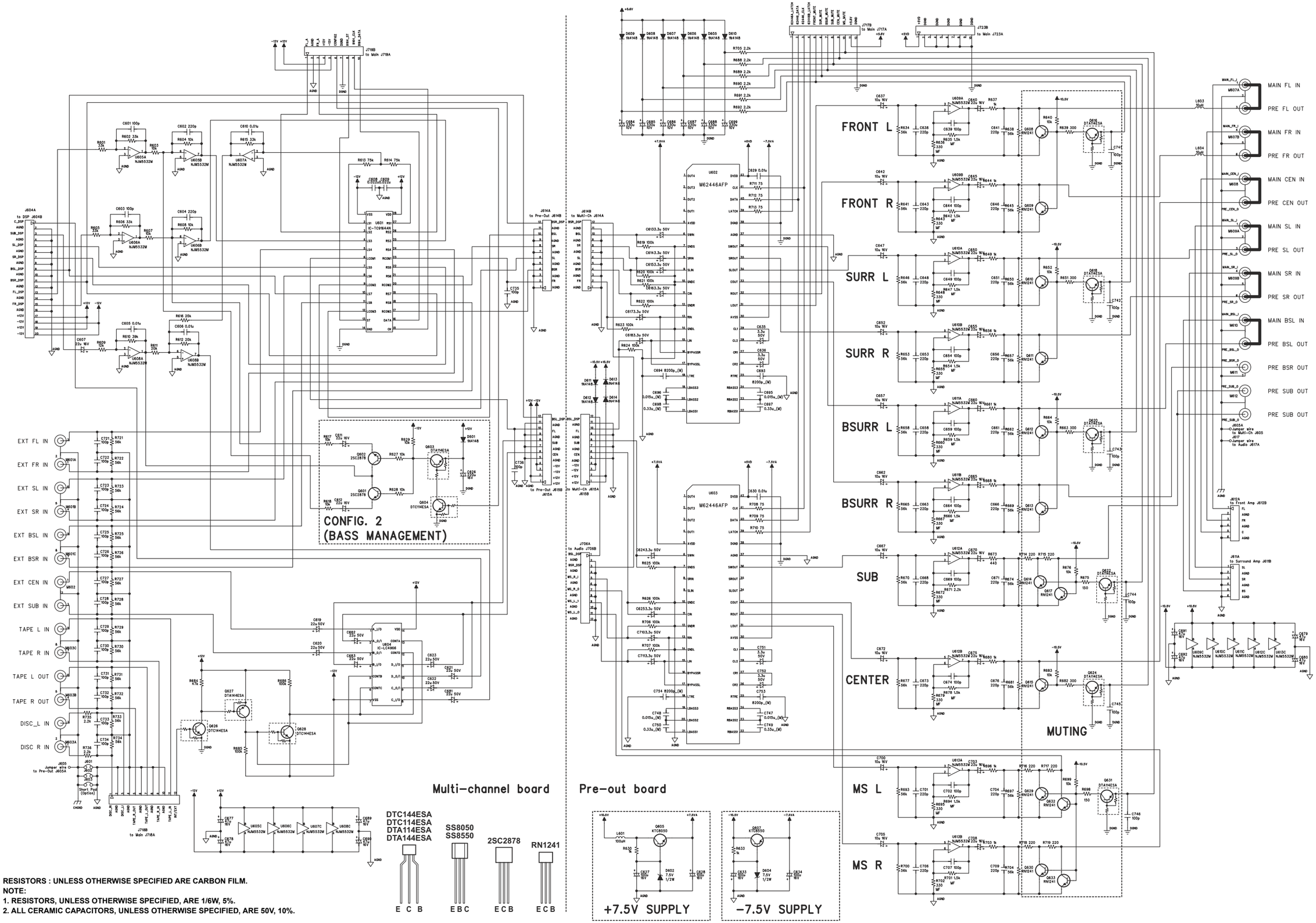
MULTI-CH / PRE-OUT



RESISTORS : UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.
NOTE:
1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

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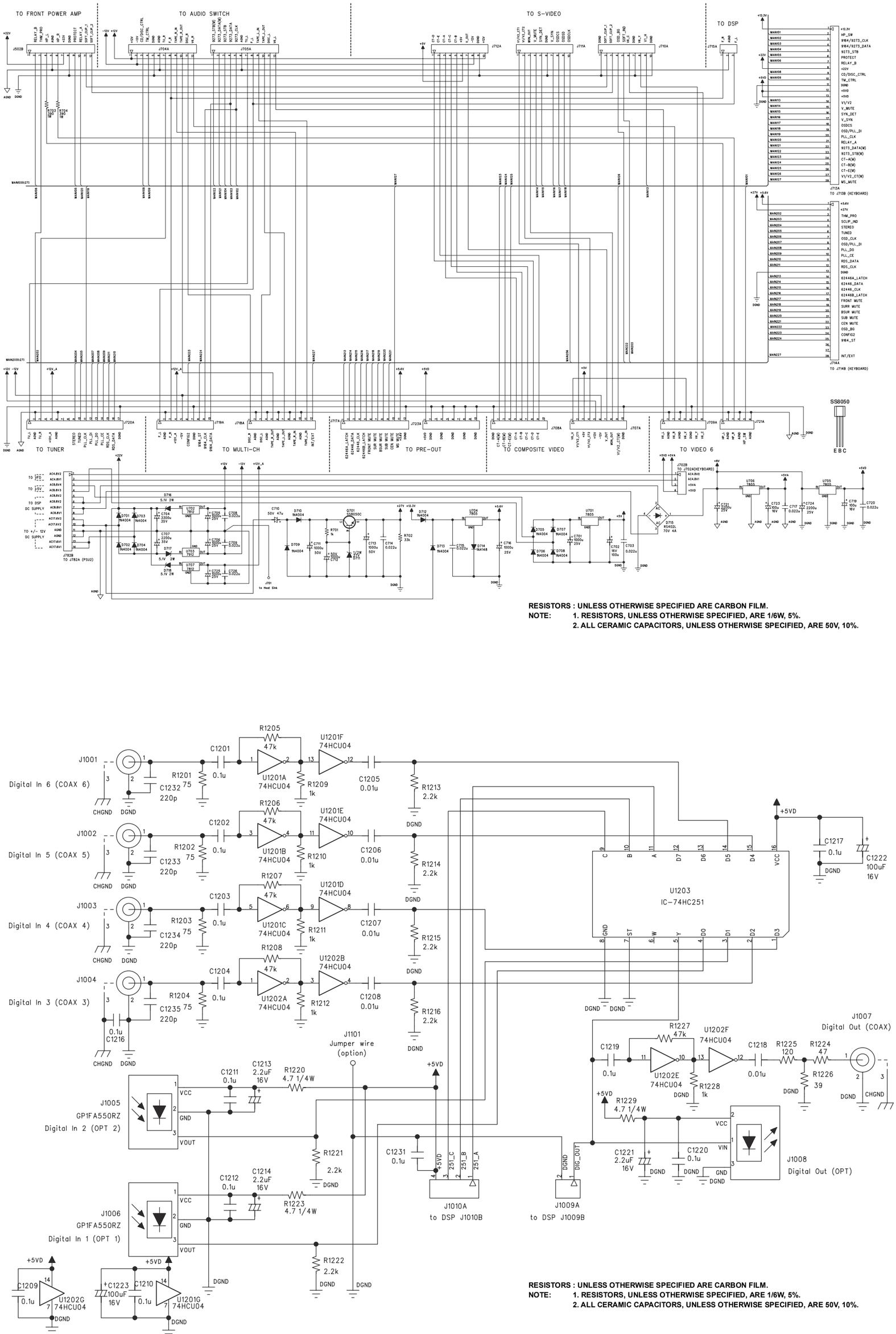
Cutting line for folded page!

MAIN BOARD

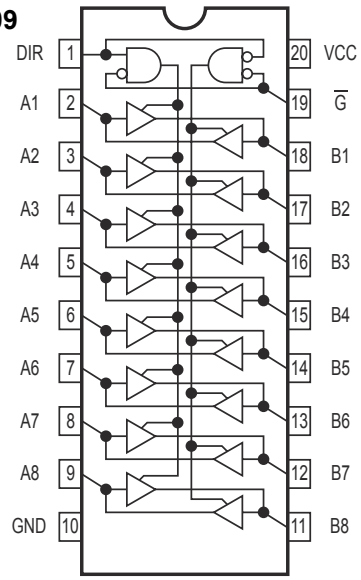


DIGITAL IN & OUT

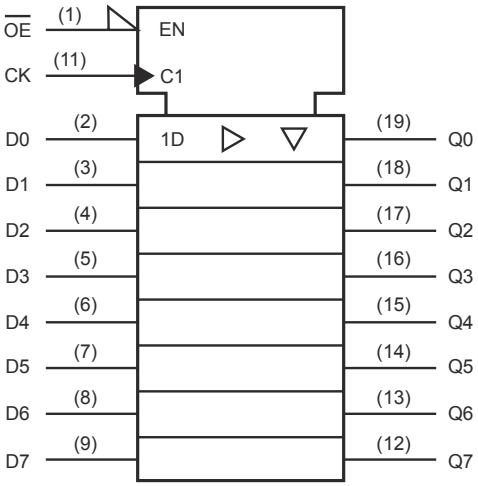
IC BLOCK DIAGRAM

74LVC245
DSP BOARD: U1002, U1003, U1014

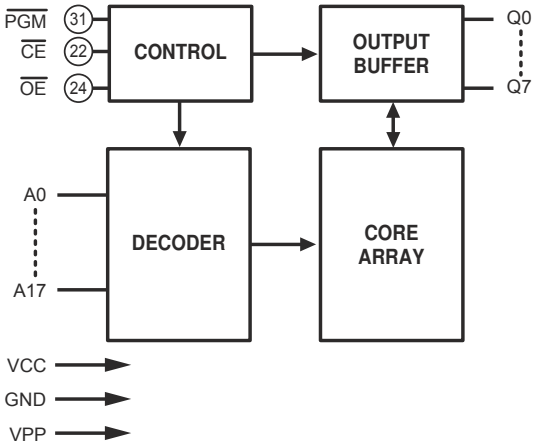
74VHC245
KEYBOARD: U209



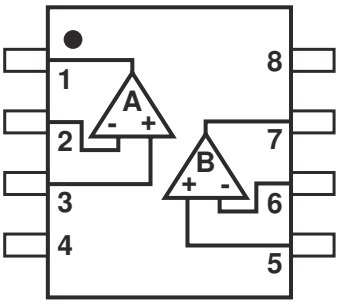
74LVQ574
DSP BOARD: U1008, U1009



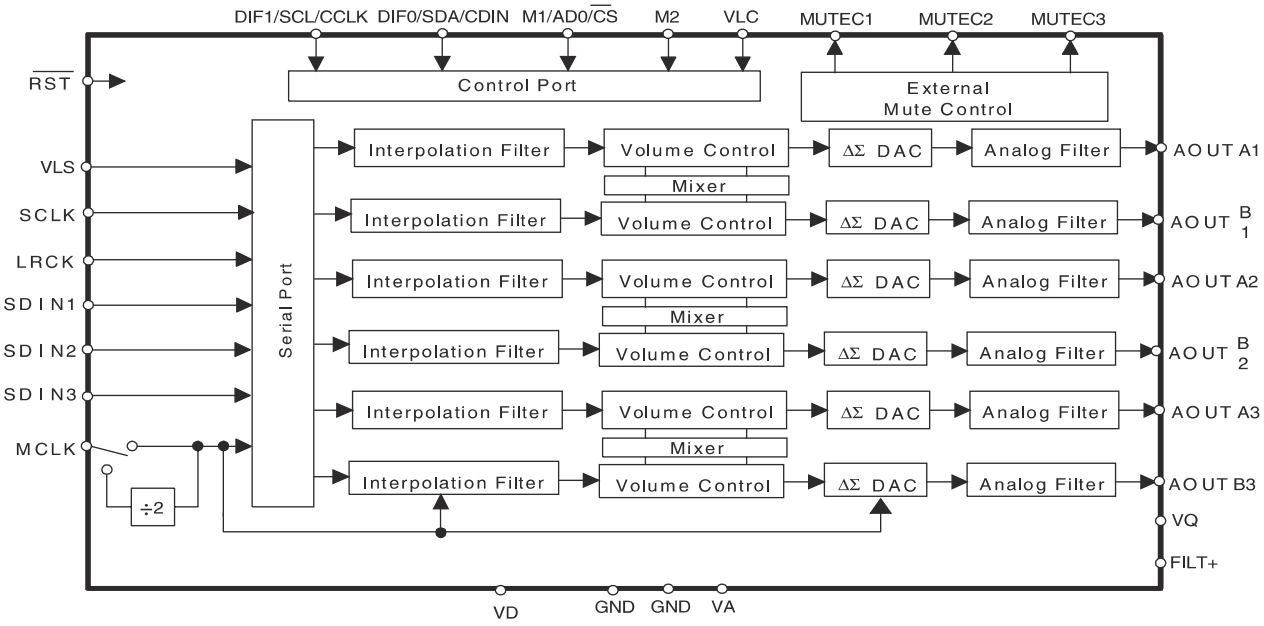
W27C020
DSP BOARD: U1007



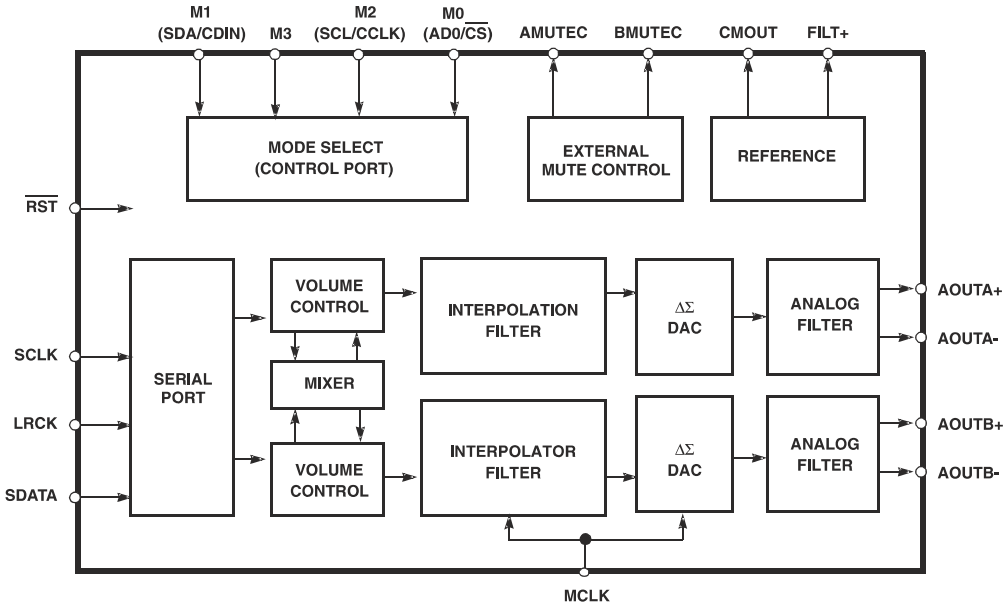
NJM5532
DSP BOARD: U1010~U1013, U1023 & U1028
MULTI-CHANNEL: U605~U608
PRE-OUT BOARD: U609~U613
AUDIO BOARD: U305
ISC BOARD: U801



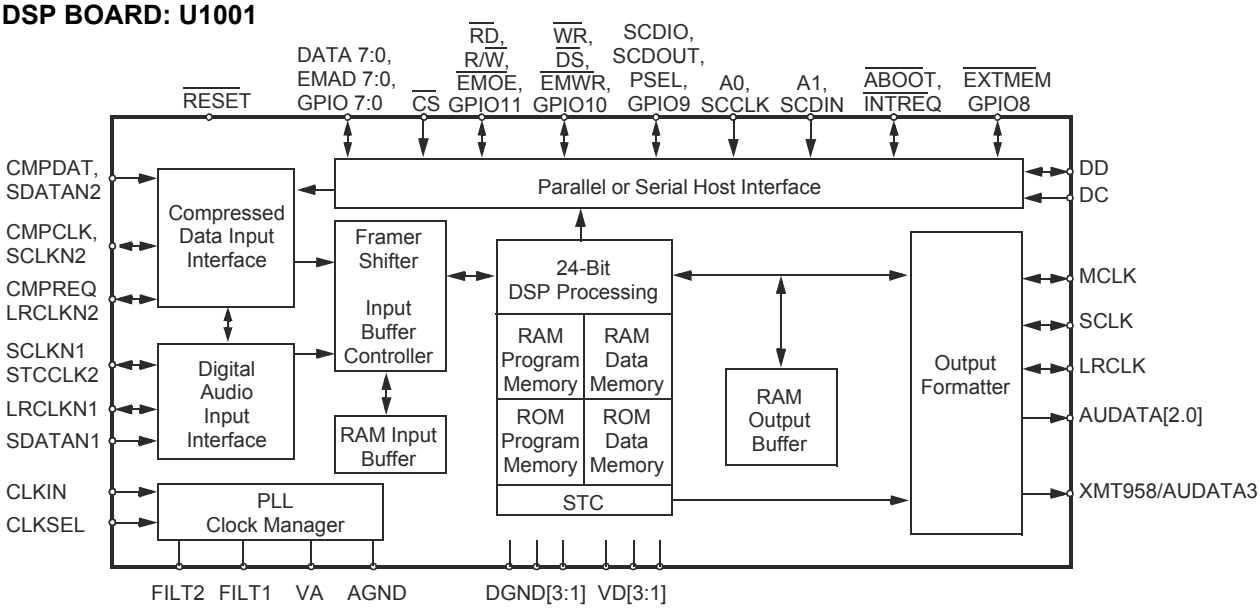
CS4360KZ
DSP BOARD: U1026



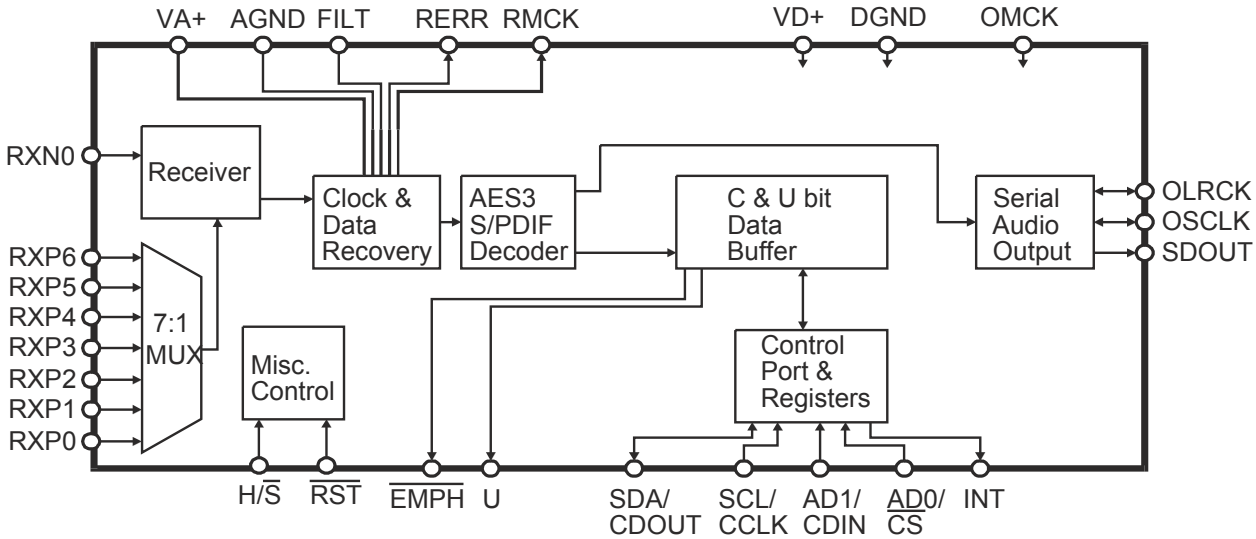
CS4392
DSP BOARD: U1025



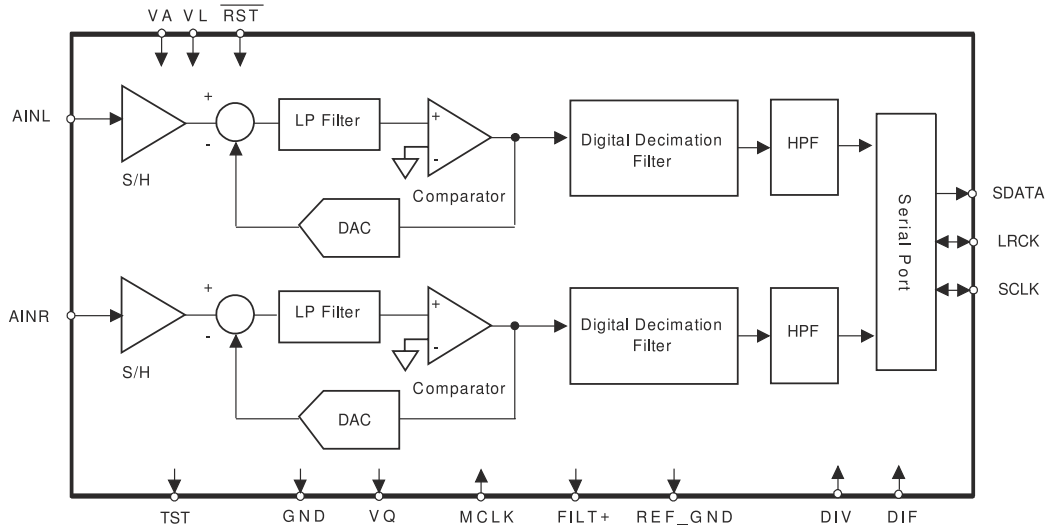
CS49326
DSP BOARD: U1001



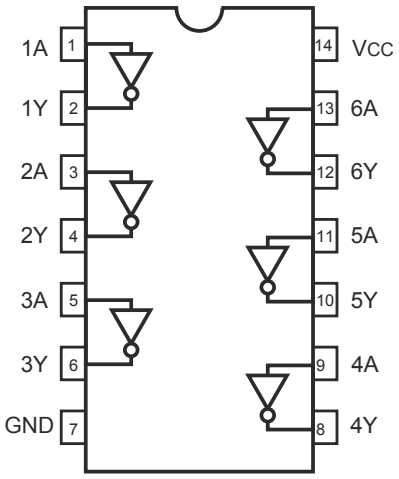
CS8415A
DSP BOARD: U1005



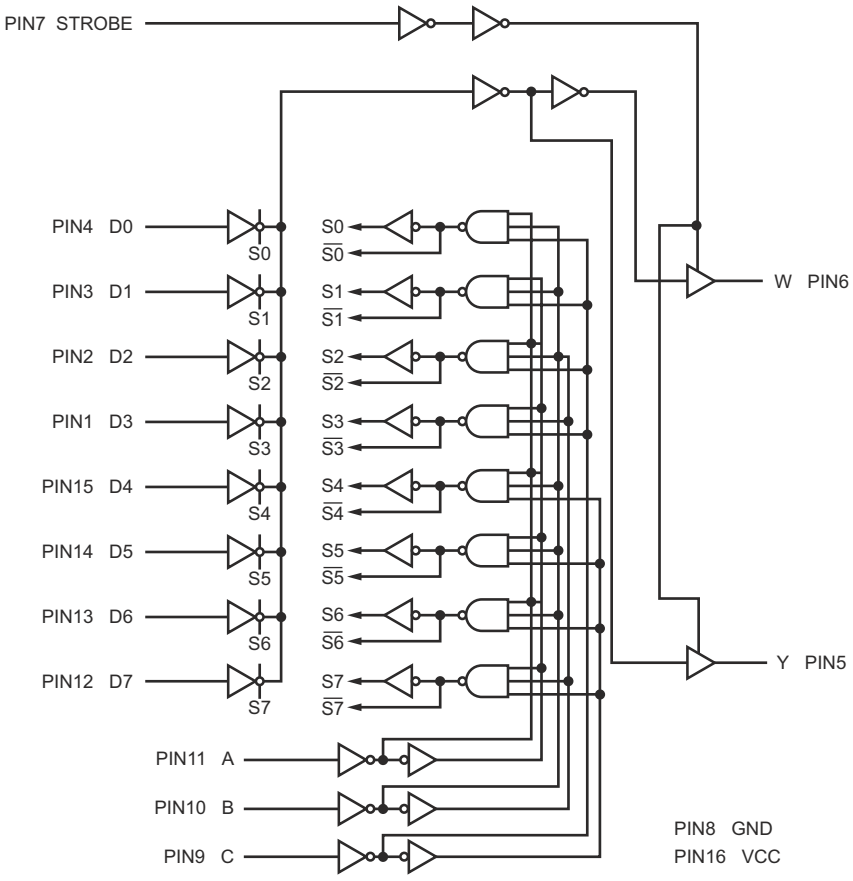
CS5333KZ
DSP BOARD: U1027



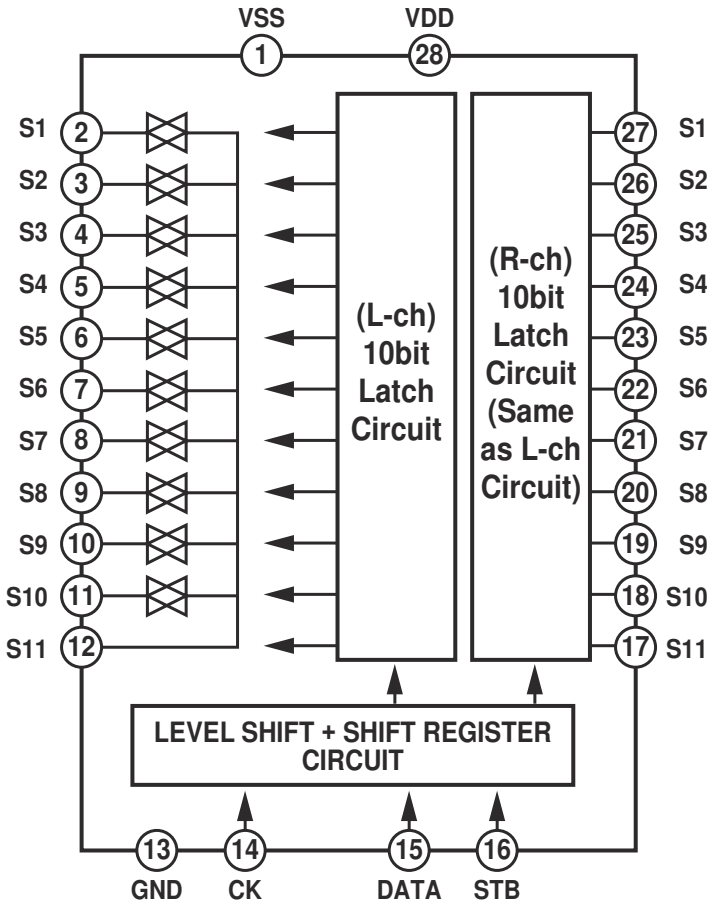
74HCU04
DIGITAL BOARD: U1201 & U1202



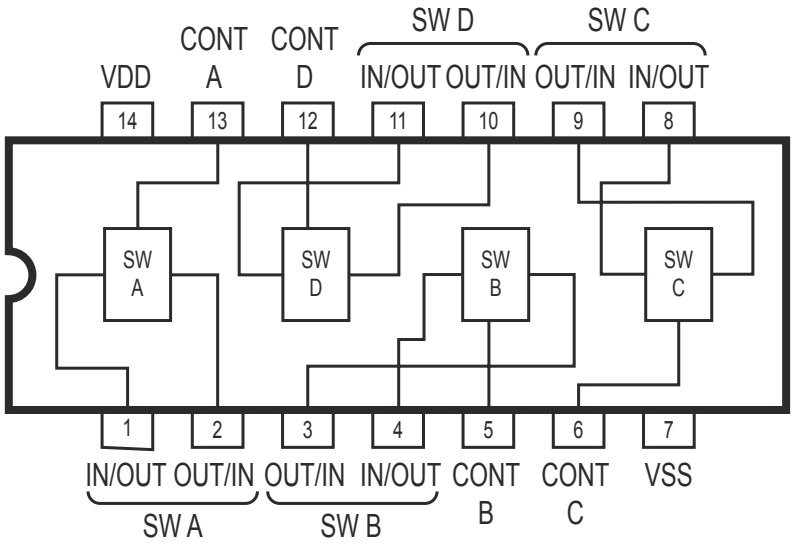
74HC251
DIGITAL BOARD: U1203



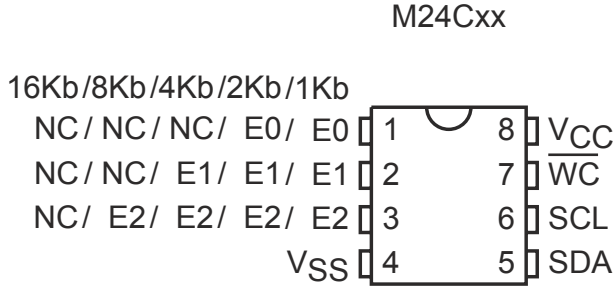
TC9273
AUDIO BOARD: U301 & U304



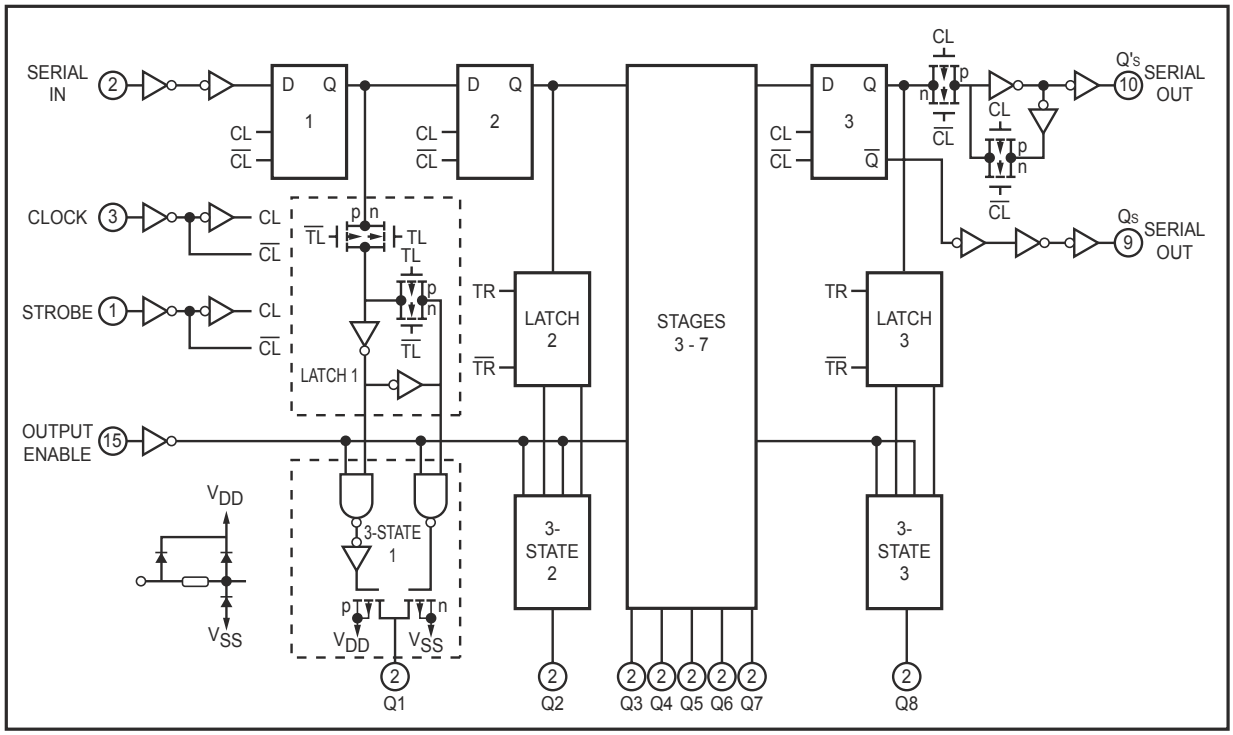
LC4966
AUDIO BOARD: U302 & U303
COMPOSITE VIDEO: U4201
S-VIDEO BOARD: U4104
MULTI-CHANNEL: U604



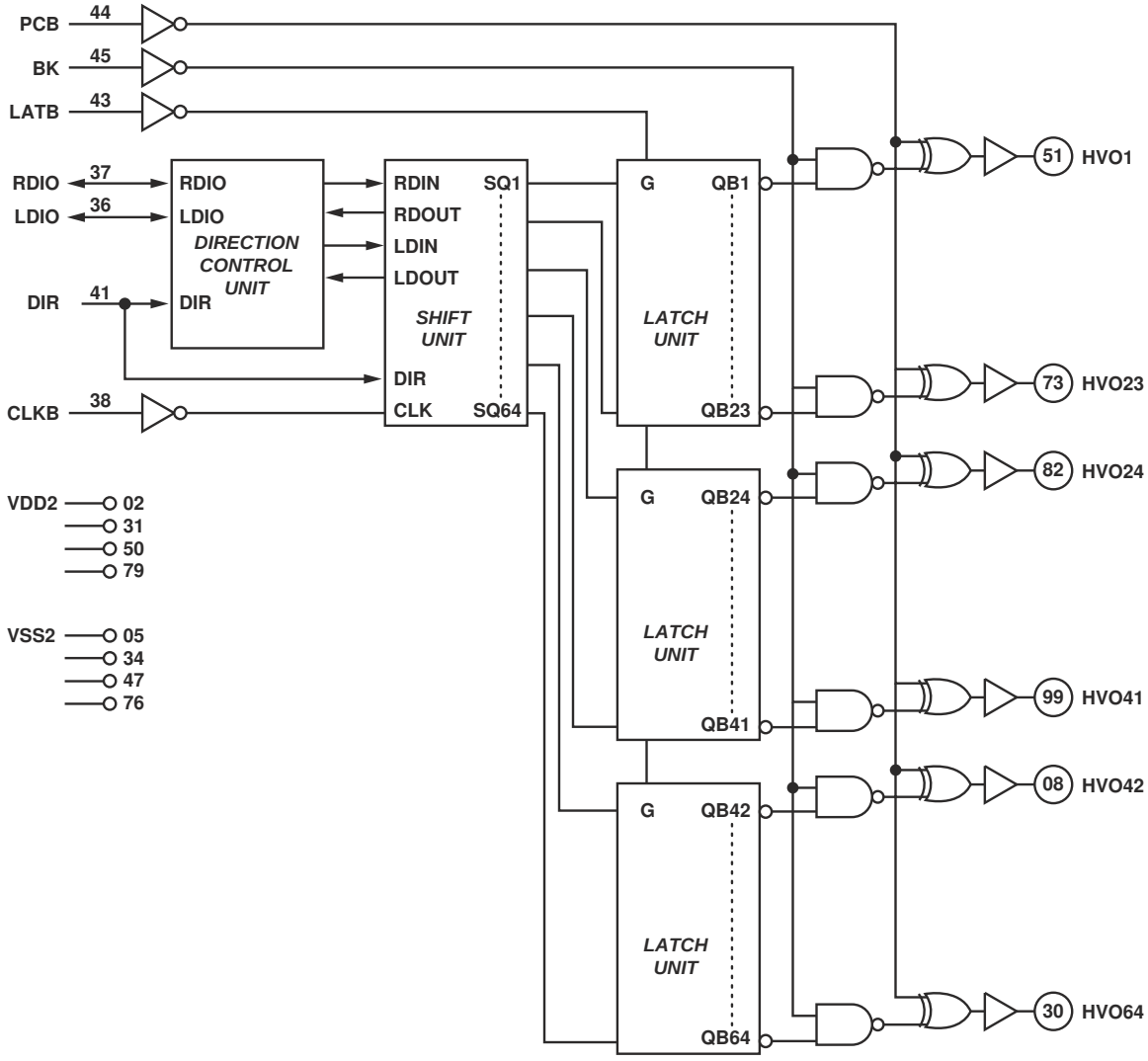
AT24C16
KEYBOARD: U210



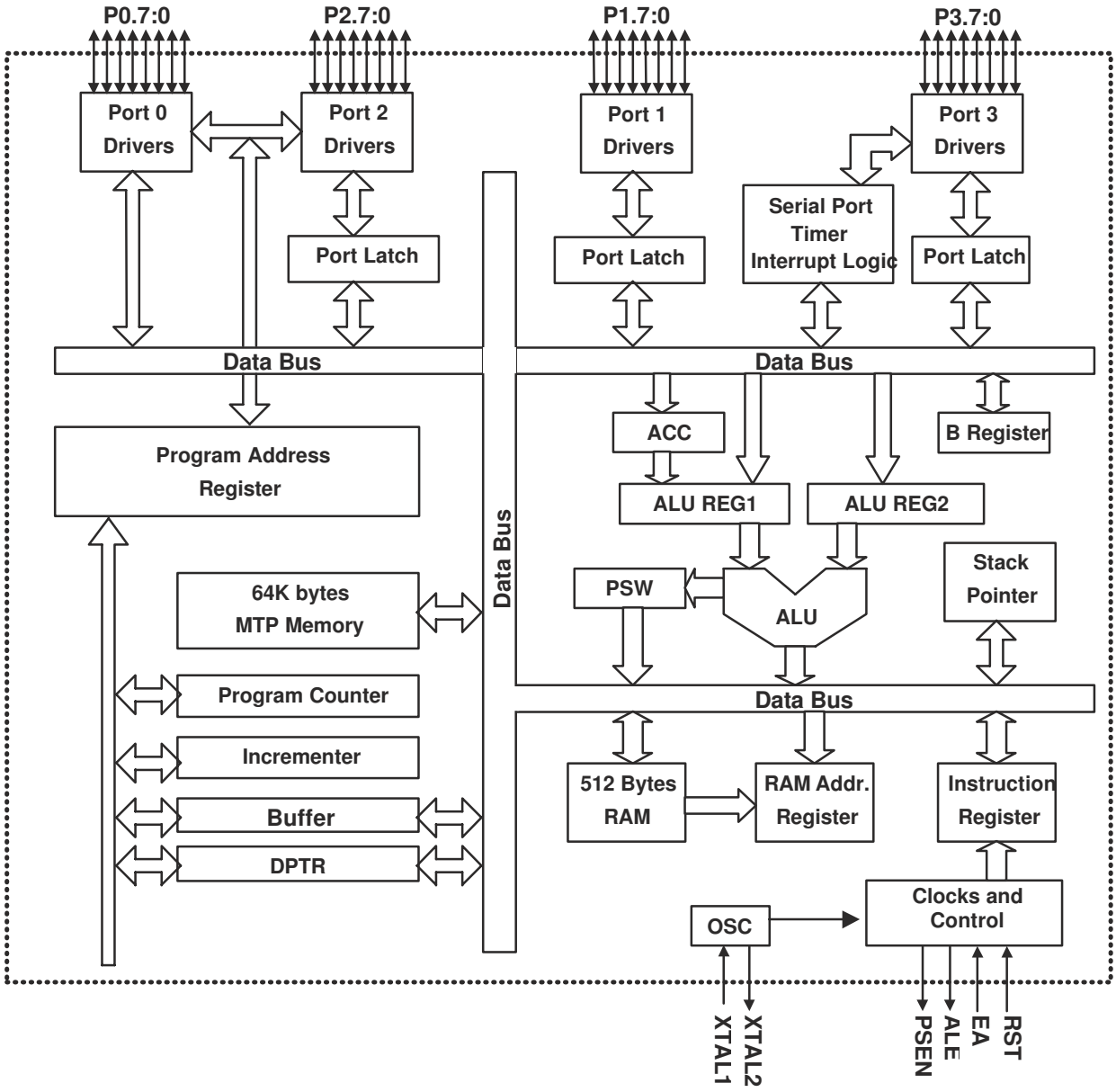
HCF4094B
KEYBOARD: U204~U207 & U211



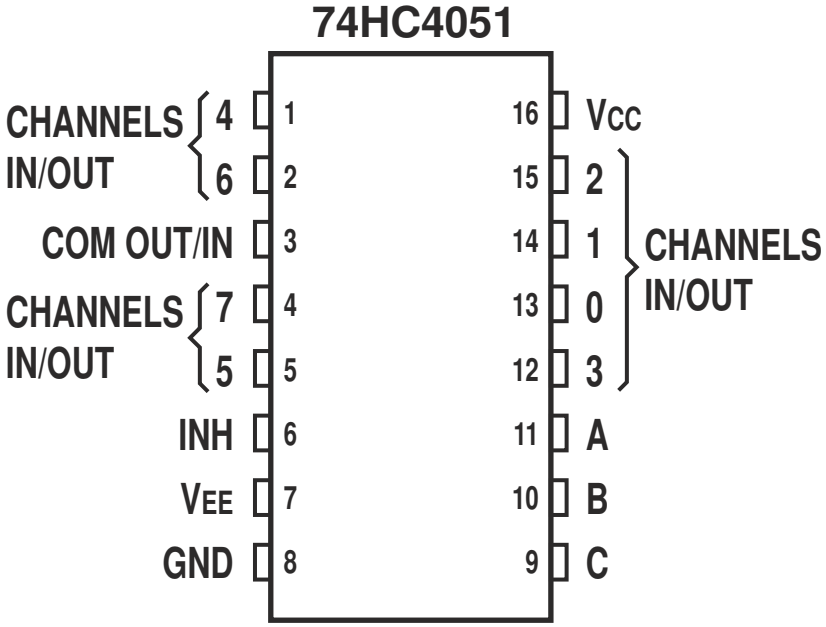
PT6306
KEYBOARD: U203



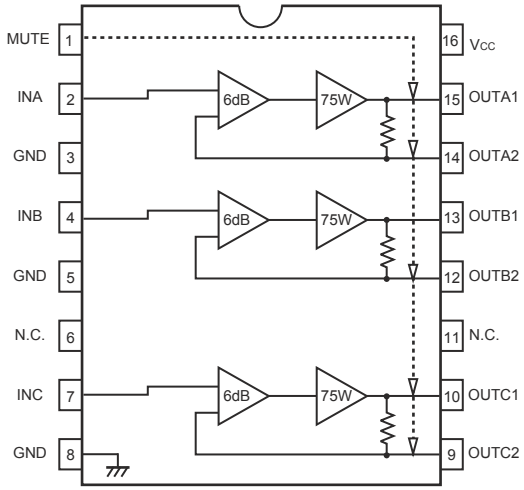
M6759
KEYBOARD: U201 & U202



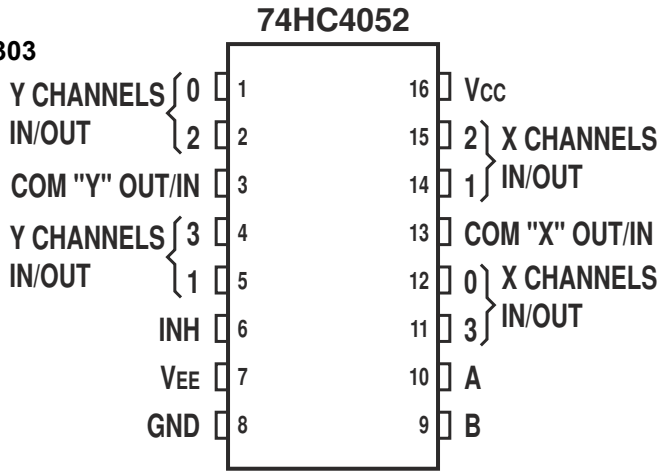
74HC4051
KEYBOARD: U208



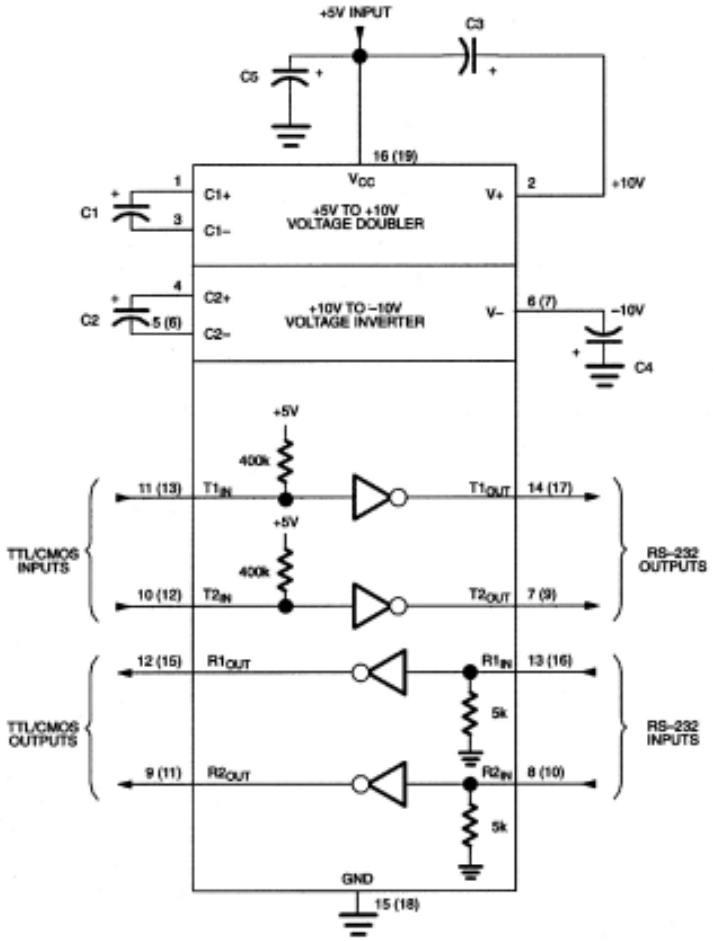
BA7660FS
COMPONENT VIDEO BOARD: U4301



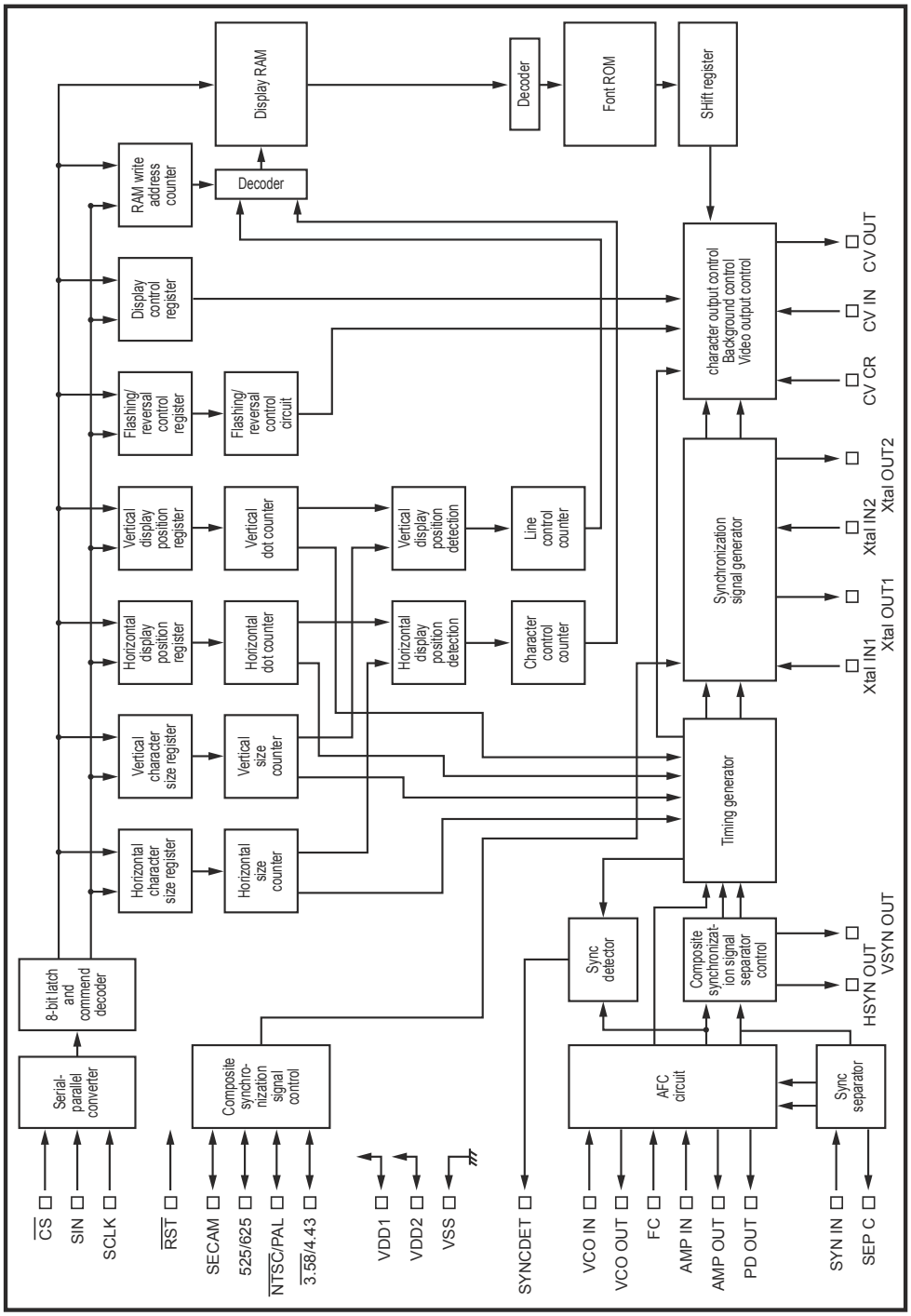
74HC4052
COMPONENT VIDEO BOARD: U4302 & U4303



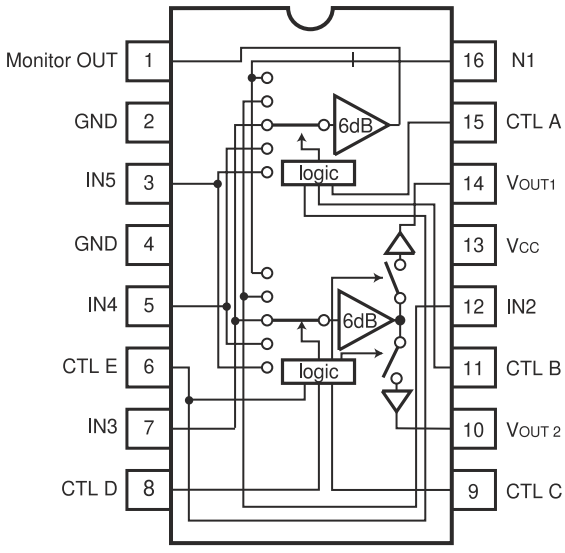
DS232A
RS232 BOARD: U901



LC74763
S-VIDEO BOARD: U4101

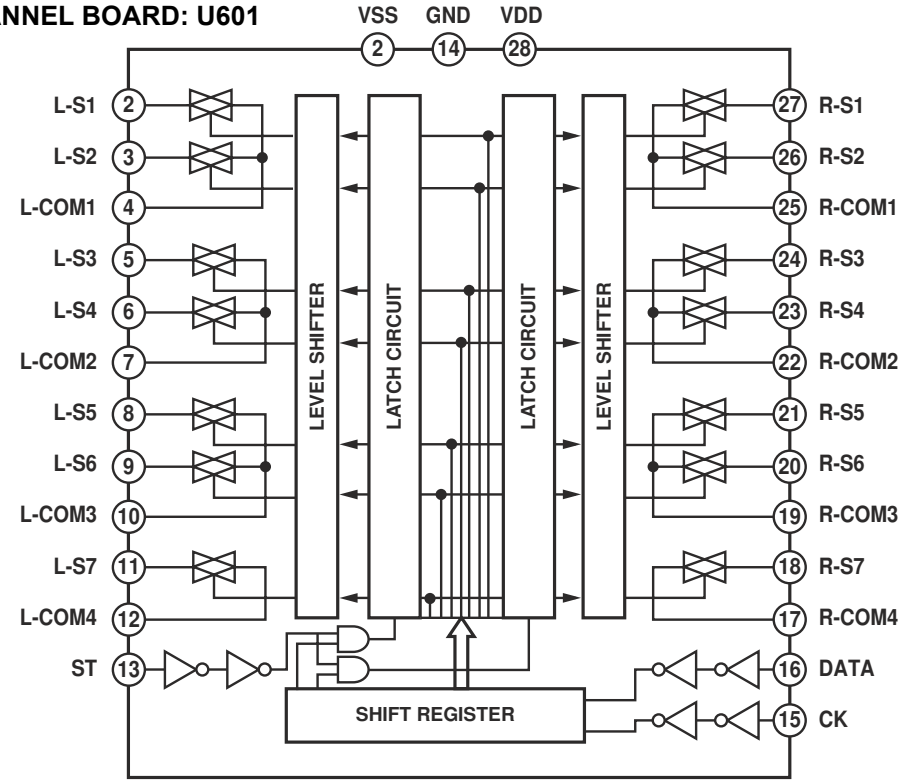


BA7625
COMPOSITE VIDEO BOARD: U4202 & U4203
S-VIDEO BOARD: U4102 & U4103



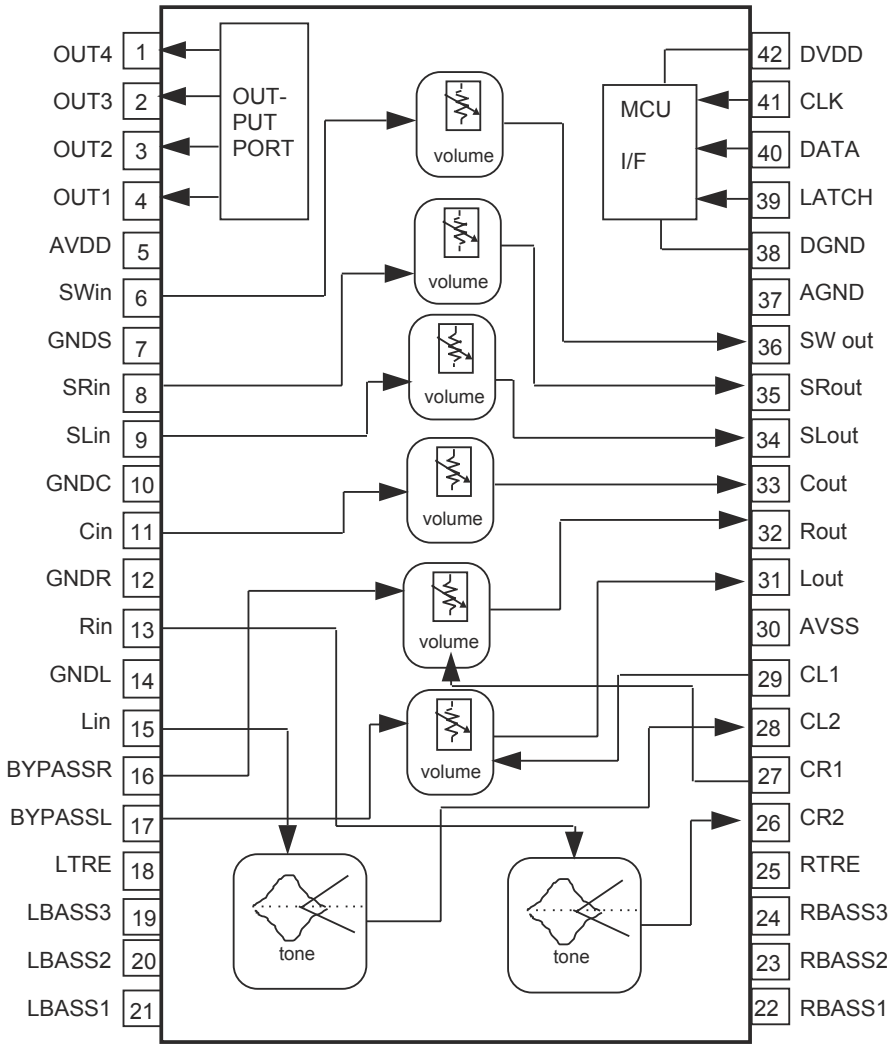
TC9164N

MULTI-CHANNEL BOARD: U601

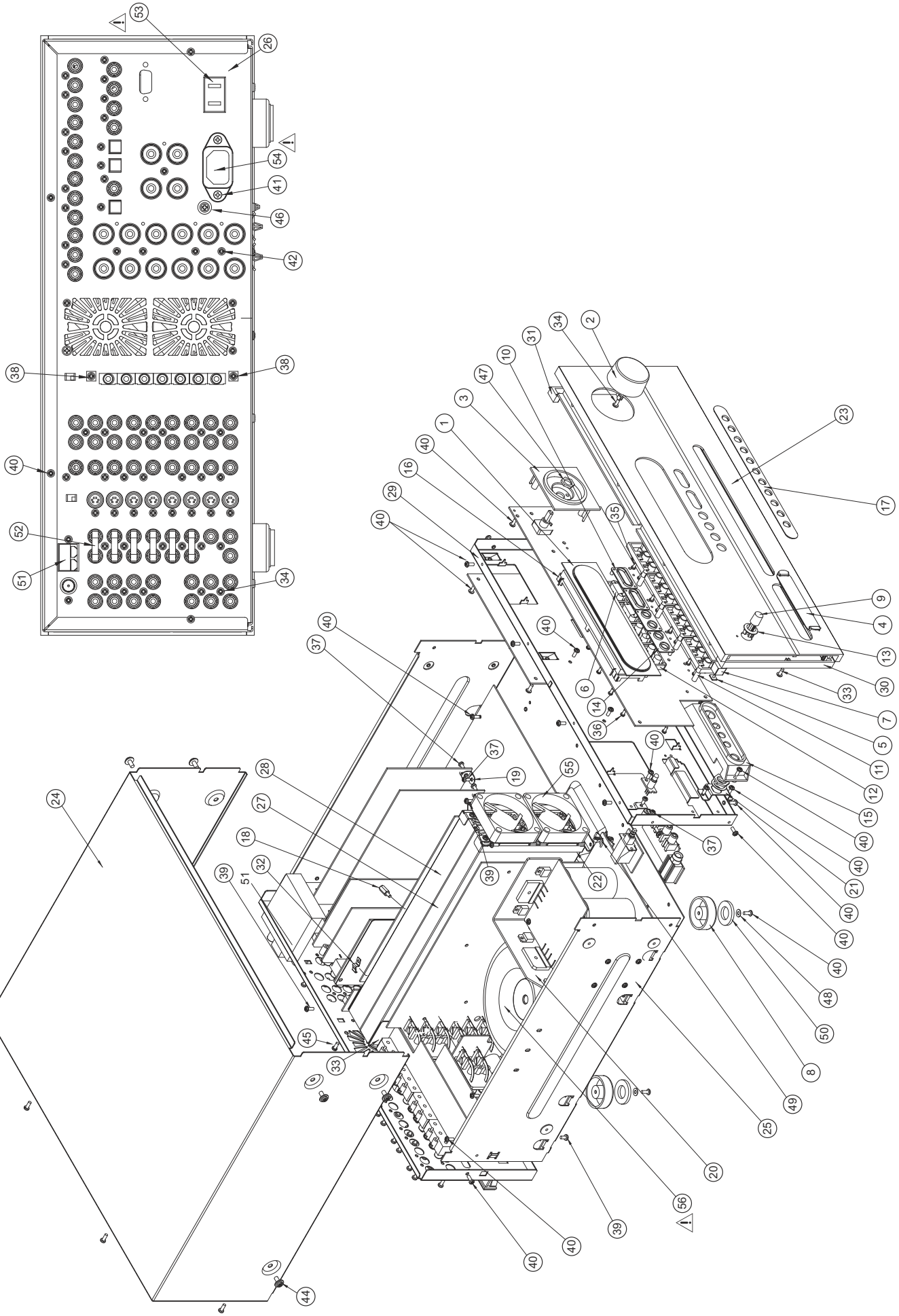


M62446FP

PRE-OUT BOARD: U602 & U603



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

Item	Part No.	Description	Qty.
1	10-0752001-00-10	WINDOW LENS	1
2	10-0752002-71-00	VOLUME KNOB ASSEMBLY	1
3	10-0752005-71-00	VOLUME BEZEL	1
4	10-0752007-01-00	VIDEO COVER	1
5	10-0752011-00-00	LED LENS	1
6	10-0752012-01-00	RACKER BUTTON	2
7	10-0752015-01-02	LED BEZEL	1
8	10-0752017-01-00	PLASTIC FOOT	4
9	10-0752022-01-00	POWER BUTTON	1
10	10-0752025-01-00	RACKER BEZEL	2
11	10-0752032-01-00	INPUT BUTTON	4
12	10-0752032-01-00	DUO BUTTONS	2
13	10-0752045-01-00	POWER BUTTON BEZEL	1
14	10-0752055-01-00	DUO BEZEL	2
15	10-0752065-01-00	VIDEO HOUSING	1
16	10-0752075-00-00	DISPLAY BRACKET	1
17	10-0762035-71-00	INPUT BUTTON LOZENGE	1
18	11-0762005-80-00	HEX SPACER AF5.5 H8+6	10
19	11-0570075-80-01	L BRACKET	2
21	11-0752065-80-00	PHONE BRACKET	1
22	11-0762055-80-01	HEATSINK MOUNTING BRACKET	1
20	11-0762048-80-01	HEATSINK- RECTIFER	1
23	11-0762000-95-11	FASCIA	1
24*AH	11-0762003-85-12	TOP COVER	1
24*C	11-0762013-85-12	TOP COVER	1
25	11-0762004-80-02	BOTTOM CHASSIS	1
26*AH	11-0762006-94-12	REAR PANEL (AH)	1
26*C	11-0762016-94-12	REAR PANEL (C)	1
27	11-0762068-80-02	EXTRUDED HTSK LEFT	1
28	11-0762078-80-02	EXTRUDED HTSK RIGHT	1
29	11-0762025-80-01	SUBFASCIA	1
30	11-0762028-95-00	SIDE CAP L	1
31	11-0762038-95-00	SIDE CAP R	1
32	11-2100135-80-00	CLIP THERMAL SWITCH	1
33	12-0762001-70-00	FIBRE GASKET INSULATOR	1
34	14-0300803-54-00	TAPTITE SCREW 3 X 8 B/H BLK PLT	63
35	13-0260600-02-00	SELF TAP SCREW 2.6 X 6 P/H NI PLT	9
36	13-0260803-02-00	SELF TAP SCREW 2.6 X 8 B/H NI PLT	16
37	14-0300600-02-00	MACHINE SCREW M3 X 6 P/H NI PLT	19
38	14-0300600-04-00	MACHINE SCREW M3 X 6 P/H BLK	4
39	14-0300600-52-00	SELF TAP SCREW 3 X 6 P/H NI-PLT	28
40	14-0300800-53-00	SELF TAP SCREW 3 X 8 B/B ZINC PLT	39
41	14-0300804-54-00	TAPTITE SCREW M3 X 8 K/H BLK PLT	5
42	14-0301000-54-00	TAPTITE SCREW 3 X 10 P/H BLK	5
43	14-0301000-02-00	MACHINE SCREW M3 X 10 PAN HEAD NI PLT	25
44	14-0400802-04-00	MACHINE SCREW M4 X 8 WASHER HEAD BLK	6
45	14-0400803-54-00	TAPTITE SCREW 4 X 8 B/H BLK	4
46	14-0401002-04-00	MACHINE SCREW M4 X 10 WASHER HEAD BLK	1
47	15-0900220-11-30	NUT ZINC PLATED M9.0 X 2.2mm	1
48	16-0350080-04-35	STEEL WASHER I/D 3.5 X O/D 8.0 0.4mm ZINC PLT	6
49	17-0500960-00-01	PCB SUPPORTER H 9.6mm PCB HOLE 4mm	3

Item	Part No.	Description	Qty.
50	17-1402603-30-22	RUBBER FOOT I/D14 X O/D26 X 3 HH-48C	4
51*AH	29-4000003-00-38	AM/FM TUNER MODULE KST-MB114MA1-22	1
51*C	29-4000002-00-38	AM/FM TUNER MODULE KST-MB114MA1-20	1
52	34-0061030-00-67	JUMPER PLUG PITCH 14mm	6
53*AH ⚠	34-0101001-00-70	AC OUTLET US POLARIZED 3512-MITIBKUC	1
53*C ⚠	34-0100002-00-78	AC OUTLET CEE 7 2.5A/250V A302D0060P	1
54 ⚠	34-0101000-00-67	AC SOCKET IEC 15A/250V	1
55	37-2031245-00-63	FAN DC 60X60X20mm 12DVC 0.27A 4500RPM	2
56 ⚠	25-0090056-00-21	XFORMER PW TOROIDAL 120V/240V TI-0130203 ISS 6	1

NOTE:

THE COMPONENTS IDENTIFIED BY ⚠ MARK ARE CRITICAL FOR RISK OF FIRE AND ELECTRICAL SHOCK. REPLACE ONLY WITH PART NUMBER SPECIFIED.

<*AH > : USA, CANADIAN MODEL ONLY.

<*C > : EUROPEAN MODEL ONLY.

ELECTRICAL PARTS LIST (refer to schematic diagram for non critical component values)

Reference No.	Part No.	Description
PCB MODULE	95-097625-12-01	POWER AMPLIFIER MODULE
FRONT & CENTER AMPLIFIER BOARD		
PCB ASSEMBLY	80-0907620-40-00	FRONT AND CENTER AMP ASSEMBLY
CAPACITORS		
C501,C513,C525	22-3476052-00-43	CAP ELEC SS 4.7uF 50V 20%
C510-C511,C521-C522,C534-C535	22-3101082-00-28	CAP ELEC GR 100uF 100V 20%
C503,C515,C527	22-4110203-10-28	CAP MYLAR MCC-R 1000P 100V 10%
C505,C517,C529	22-3471022-00-28	CAP ELEC GR 470uF 16V 20%
C508,C519,C531	22-4115403-10-10	CAP MYLAR KT-G 150nF 100V 10%
C537-C539	22-4210402-00-31	CAP MPF 0.1uF 63V 5% DMF 5 SERIES
C565-C566	22-3470022-00-43	CAP ELEC SS 47uF 16V 20%
DIODES		
D501-D503,D505-D507,D509-D514, D522-D528,D531-D536	20-0000000-00-13	DIODE SW 4NS DO35 1N4148
D529-D530	20-3222002-02-01	DIODE ZENER BZX55 22V 1/2W 5%
COILS		
L501-L503	24-1000001-00-28	AIR COIL 0.2uH 10% 1 X 9 X 13.5 TURNS
RELAYS		
M501-M502,M505	32-3124051-03-40	RELAY POWER DC24V 5A/250V 2P1T
THERMISTOR		
M504,M507	23-6110100-00-08	THERMISTOR PTC PTH9MO4BH471TS2F333
THERMAL PROTECTOR		
M506	39-0000007-00-15	THERMAL CUT OFF SWITCH 90C UP72
TRANSISTORS		
Q507,Q519,Q531	21-1011610-30-12	XTR PW NPN 1.5A/160V TO-220ML 2SC4159E
Q510,Q522,Q533	21-1152310-10-12	XTR PW NPN 15A/230V TO-3PB 2SC5669
Q501-Q503,Q511,Q513-Q515,Q523, Q525-Q527,Q535	21-0000410-00-12	XTR SS NPN HFE160-320 130MHz 2SC2362KF
Q504,Q506,Q516,Q518,Q529-Q530, Q562,Q565,Q568	21-1011210-50-12	XTR PW PNP 1A/100V TO-126 2SD600KE
Q505,Q508,Q517,Q520,Q528,Q532	21-1011611-30-12	XTR PW PNP 1.5A/160V TO-220ML 2SA1606E
Q509,Q521,Q534	21-1152311-10-12	XTR PW PNP 15A/230V TO-3PB 2SA2031
Q543-Q545	21-0000380-70-14	XTR SS NPN HFE20 250MHz DTC-123ESA
Q550-Q551,Q553-Q554,Q556-Q557, Q561,Q564,Q567	21-0100410-00-12	XTR SS PNP HFE 280-560 110MHz 2SA1016KG-AA
Q563,Q566,Q569	21-1011211-50-12	XTR PW PNP 1A/100V TO-126 2SB631KE
RESISTORS		
R527-R528,R548,R556,R575-R576	23-2100230-00-00	RES MO 10 OHM 5% 1/2W
R522,R545,R571	30-0102106-01-64	VR SEMI-FIX 1K OHM B 30% VER RM-063-1K

Reference No.	Part No.	Description
R523,R547,R574	23-4228280-08-20	RES RN 0.22 OHM 5% 5W SIL 3 PIN
R589-R591	23-2100250-00-01	RES MO 10 OHM 5% 2W
SURROUND LEFT/RIGHT/BACK AMPLIFIER BOARD		
PCB ASSEMBLY	80-0907620-18-00	SURROUND LEFT/RIGHT/BACK AMP ASSEMBLY
CAPACITORS		
C554	22-3100022-00-43	CAP ELEC SS 10uF 16V 20%
C805-C806,C836	22-4110203-10-28	CAP MYLAR MCC-R 1000P 100V 10%
C801-C802,C835	22-3476052-00-43	CAP ELEC SS 4.7uF 50V 20%
C809-C810,C837	22-3471022-00-28	CAP ELEC GR 470uF 16V 20%
C815-C816,C840	22-4115403-10-10	CAP MYLAR KT-G 150nF 100V 10%
C819-C822,C842-C843	22-3101082-00-28	CAP ELEC GR 100uF 100V 20%
C823-C824,C844	22-4210402-00-31	CAP MpF 0.1uF 63V 5% DMF 5 SERIES
C871,C873	22-3470052-00-43	CAP ELEC SS 47uF 50V 20%
C872,C874,C875	22-3100052-00-43	CAP ELEC SS 10uF 50V 20%
DIODES		
D801-D809,D814,D815-D818,D820-D824,D825,D871-D874	20-0000000-00-13	DIODE SW 4NS DO35 1N4148
D878-D879	20-3133912-20-36	DIODE ZENER BZX85 3.3V 1W 5%
COILS		
L801-L803	24-1000001-00-28	AIR COIL 0.2uH 10% 1 X 9 X 13.5 TURNS
RELAYS		
M802,M801	32-3124051-03-40	RELAY POWER DC24V 5A/250V 2P1T
THERMISTOR		
M807	23-6110100-00-08	THERMISTOR PTC PTH9MO4BH471TS2F333
TRANSISTORS		
Q815-Q816,Q844,Q850-Q852	21-1011611-30-12	XTR PW PNP 1.5A/160V TO-220ML 2SA1606E
Q817-Q818,Q845	21-1152310-10-12	XTR PW NPN 15A/230V TO-3PB 2SC5669
Q819-Q820,Q846	21-1152311-10-12	XTR PW PNP 15A/230V TO-3PB 2SA2031
Q829,Q848	21-0000380-70-14	XTR SS NPN HFE20 250MHz DTC-123ESA
Q512,Q807-Q808,Q823-Q824,Q826-Q827,Q834-Q835,Q837	21-0100410-00-12	XTR SS PNP HFE 280-560 110MHz 2SA1016KG-AA
Q545-Q546,Q801-Q806,Q821-Q822, Q838-Q840,Q847	21-0000410-00-12	XTR SS NPN HFE160-320 130MHz 2SC2362KF
Q809-Q812,Q841-Q842,Q854, Q856,Q858	21-1011210-50-12	XTR PW PNP 1A/100V TO-126 2SD600KE
Q813-Q814,Q843	21-1011610-30-12	XTR PW NPN 1.5A/160V TO-220ML 2SC4159E
Q855,Q857,Q859	21-1011211-50-12	XTR PW PNP 1A/100V TO-126 2SB631KE

Reference No.	Part No.	Description
Q871	21-1036003-50-06	XTR PW 3A/60V TO-126 2SB772Q
Q872	21-0000390-70-14	XTR SS NPN HFE270-560 180MHz 2SC1740S
RESISTORS		
R843-R844,R8103	23-4228280-08-20	RES RN 0.22 OHM 5% 5W SIL 3 PIN
R857-R858,R8110	23-2100250-00-01	RES MO 10 OHM 5% 2W
R829-R830,R837-R838,R894,R898	23-2100230-00-00	RES MO 10 OHM 5% 1/2W
R835-R836,R897	30-0102106-01-64	VR SEMI-FIX CF 1K OHM B 30% VER RM-063-1K
REGULATORS		
U871	27-3001201-17-14	VOLT REG 12V 1A TO-220 NJM7812
U872	27-3000501-17-14	VOLT REG 5V 1A TO-220 NJM7805FA
DSP BOARD		
PCB ASSEMBLY	80-0907620-65-00	DSP ASSEMBLY
CAPACITORS		
C1004,C1014,C1016,C1062,C1083, C1096,C1100,C1155,C1173-C1174	22-3106052-00-43	CAP ELEC SS 1uF 50V 20%
C1005	22-3226052-00-43	CAP ELEC SS 2.2uF 50V 20%
C1011	22-4210402-00-31	CAP MPF 0.1uF 63V 5% DMF 5 SERIES
C1012,C1060,C1072-C1073,C1117	22-3101022-00-43	CAP ELEC SS 100uF 16V 20%
C1021-C1020,C1030-C1031,C1040-C1041,C1050-C1051,C1091,C1094	22-3336052-00-43	CAP ELEC SS 3.3uF 50V 20%
C1109-C1112	22-3470022-00-43	CAP ELEC SS 47uF 16V 20%
C1119,C1133	22-3102022-00-28	CAP ELEC GR 1000uF 16V 20%
C1137-C1138,C1143-C1144	22-3100052-00-43	CAP ELEC SS 10uF 50V 20%
C1152-C1154,C1092,C1079,C1171-C1172	22-3100022-00-43	CAP ELEC SS 10uF 16V 20%
C1003,C1008-C1009,C1013,C1015, C1017-C1019,C1061,C1074-C1076, C1078,C1081-C1082,C1090,C1093, C1095,C1099,C1124-C1128,C1150-C1151,C1177-C1178	45-0104056-57-57	CAP CER SMD 0.1uF 50V 20% X5V 0603
C1025,C1029,C1035,C1039,C1045, C1049,C1055,C1059,C1114,C1130-C1131	45-0472055-55-57	CAP CER SMD 4.7nF 50V 10% X7R 0603
C1024,C1028,C1034,C1038,C1044, C1048,C1054,C1058	45-0681055-55-57	CAP CER SMD 680pF 50V 10% X7R 0603
C1101-C1108	45-0101055-55-57	CAP CER SMD 100pF 50V 10% X7R 0603
C1006,C1121	45-0221055-55-57	CAP CER SMD 220pF 50V 10% X7R 0603
C1129	45-0332055-55-57	CAP CER SMD 3.3nF 50V 10% X7R 0603
C1132	45-0102055-55-57	CAP CER SMD 1nF 50V 10% X7R 0603
C1134-C1136	45-0222055-55-57	CAP CER SMD 2.2nF 50V 10% X7R 0603
C1022,C1026,C1032,C1036,C1042, C1046,C1052,C1056,C1139-C1140, C1145-C1146	45-0272055-55-57	CAP CER SMD 2.7nF 50V 10% X7R 0603
C1141-C1142,C1147-C1148	45-0561055-55-57	CAP CER SMD 560pF 50v 10% X7R 0603

Reference No.	Part No.	Description
C1166	45-0331055-55-57	CAP CER SMD 330pF 50V 10% X7R 0603
C1007,C1010,C1175-C1176	45-0103055-55-57	CAP CER SMD 10nF 50V 10% X7R 0603
INDUCTORS		
L1001-L1008	24-0100127-00-28	IND CHOKE 10uH 10% EC36 EC36-100K
TRANSISTORS		
Q1001-Q1003	21-0000010-00-46	XTR SS NPN HEF 100 200MHz TO-92 C1815Y
Q1008-Q1015	21-0000350-70-00	XTR SS NPN HFE200-700 30MHz SPT RN1241A
Q1004-Q1007,Q1016	21-0100390-70-14	XTR SS PNP HFE 30 250MHz SPT DTA 114ESA
RESISTORS(SMD)		
J1002,R1010,R1099	44-0000027-11-00	RES SMD 0 OHM 5% 1/10W 0805
R1001-R1002,R1079,R1083	44-0470120-51-00	RES SMD 4.7K OHM 5% 1/16W 0603
R1003-R1006	44-0330120-51-00	RES SMD 3.3K OHM 5% 1/16W 0603
R1007,R1191-R1194	44-0330920-51-00	RES SMD 33 OHM 5% 1/16W 0603
R1008,R1020,R1022,R1026,R1036, R1040,R1050,R1054,R1064,R1068, R1104,R1106,R1108,R1110,R1114, R1128,R1131-R1138	44-0100220-51-00	RES SMD 10K OHM 5% 1/16W 0603
R1009	44-0200320-51-00	RES SMD 200K OHM 5% 1/16W 0603
R1013	44-0120120-51-00	RES SMD 1.2K OHM 5% 1/16W 0603
R1023,R1030,R1037,R1044,R1051 R1065,R1072,R1103,R1105,R1107, R1109,R1058,R1120-R1121,R1126-R1127,R1129	44-0150120-51-00	RES SMD 1.5K OHM 5% 1/16W 0603
R1024,R1031,R1038,R1045,R1052, R1059,R1073,R1066	44-0620020-51-00	RES SMD 620 OHM 5% 1/16W 0603
R1027-R1028,R1033,R1035,R1041 R1042,R1047,R1049,R1055-R1056, R1061,R1063,R1069-R1070,R1075, R1077-R1078,R1080,R1084	44-0220120-51-00	RES SMD 2.2K OHM 5% 1/16W 0603
R1081	44-0330010-51-00	RES SMD 330 OHM 1% 1/16W 0603
R1082	44-0180020-51-00	RES SMD 180 OHM 5% 1/16W 0603
R1090-R1091	44-0270020-51-00	RES SMD 270 OHM 5% 1/16W 0603
R1092-R1094,R1112-R1113,R1115, R1181-R1184	44-0100020-51-00	RES SMD 100 OHM 5% 1/16W 0603
R1116-R1117,R1122-R1123	44-0562117-51-00	RES SMD 5.62K OHM 1% 1/10W 0603
R1118-R1119,R1124-R1125	44-0118117-51-00	RES SMD 1.18K OHM 1%1/10W 0603
R1130,R1173-R1176	44-0470220-51-00	RES SMD 47K OHM 5% 1/16W 0603
R1166	44-0100120-51-00	RES SMD 1K OHM 5% 1/16W 0603
R1172-R1172	44-0330220-51-00	RES SMD 33K OHM 5% 1/16W 0603
R1177-R1178	44-0150020-51-00	RES SMD 150 OHM 5% 1/16W 0603
R1195-R1198	44-0200120-51-00	RES SMD 2K OHM 5% 1/16W 0603
ICS		
U1001	27-9493260-04-70	I.C. DD DTS & MPEG DECODER CS49326
U1004	27-0115790-25-00	I.C. LOGIC QUAD 2-INPUT SELECTOR 74HC157MIR

Reference No.	Part No.	Description
U1005	27-9841500-25-53	I.C. 96KHz DIGITAL AUDIO INTERFACE RECEIVER CS8415A-CS
U1007	27-2325607-00-88	I.C. EEPROM 256 X 8 BYTE 70nS W27C02-70
U1008-U1009	27-0657490-18-00	I.C. LOGIC OCTAL D-FLIP FLOPS 74LVQ574M
U1002-U1003,U1014	27-0324590-24-00	I.C. LOGIC OCTAL BIDIRECTIONAL TRANSCEIVER 74LVC245
U1010-U1013,U1028,U1023	27-7055320-18-14	I.C. AUDIO LOW NOISE OP-AMP NJM5532M
U1025	27-9439200-24-53	I.C. 24BIT 192KHz STEREO DAC CS4392-KZ
U1026	27-9436000-24-53	I.C. 24BIT 192KHz 6 CH DAC CS4360KZ
U1027	27-9533300-24-53	I.C. 24BIT 96KHz STEREO ACD CS5333KZ
CRYSTAL		
X1001	28-5122200-04-19	CRYSTAL CLOCK OSCILLATOR 12.288MHz 50ppm 4PIN HALF-SIZE
REGULATORS		
U1015,U1020	27-3031710-06-00	VOLT REG 1A TO-220(T) LM317T
AUDIO BOARD		
PCB ASSEMBLY	80-0907620-11-00	AUDIO ASSEMBLY
TRANSISTORS		
Q301,Q303,Q307,Q309	21-0000120-70-14	XTR SS NPN HFE 68 30MHz SPT DTC144ES
Q302	21-0100390-70-14	XTR SS PNP HFE 30 250MHz SPT DTA 114ESA
Q308	21-0000450-70-14	XTR SS NPN 68 250MHz SPT DTA144ESA
CAPACITORS		
C317-C332	22-3220022-00-43	CAP ELEC GS 22uF 16V 20%
C333-C336	22-3470022-00-43	CAP ELEC SS 47uF 16V 20%
ICS		
U301,U304	27-7892730-24-11	I.C. ANALOG SW SMD TC9273F-004
U302,U303	27-9496600-21-02	I.C. QUAD BILATERAL SWITCH LC4966
U305	27-7055320-18-14	I.C. AUDIO LOW NOISE OP-AMP SMD NJM5532M
RCA JACKS		
M301-M303	34-4060420-00-60	RCA JACK 6 R-R-R/W-W-W PCB MOUNT GOLD RCA-653D-04
COMPONENT VIDEO BOARD		
PCB ASSEMBLY	80-0907620-66-00	COMPONENT VIDEO ASSEMBLY
CAPACITORS		
C4301-C4309	22-3226052-00-43	CAP ELEC SS 2.2uF 50V 20%
C4310-C4312,C4325	22-3100022-00-43	CAP ELEC SS 10uF 16V 20%

Reference No.	Part No.	Description
C4313-C4315	22-3106052-00-43	CAP ELEC SS 1uF 50V 20%
C4316,C4318,C4320	22-3101022-00-43	CAP ELEC SS 100uF 16V 20%
C4317,C4319,C4321	22-3220022-00-43	CAP ELEC GS 22uF 16V 20%
ICS		
U4301	27-5176600-18-23	I.C. VIDEO 3-CHANNEL 75 OHM DRIVER SSOP BA7660FS
U4302-U4303	27-0140520-18-00	I.C. LOGIC SINGLE DUAL TRIPLE SMD SOP M74HC4052MIR
RCA JACKS		
M431-M434	34-4032020-00-60	RCA 3 G-BL-R PCB MOUNT GOLD RS-354G-18
DIGITAL BOARD		
PCB ASSEMBLY	80-0907620-47-00	DIGITAL ASSEMBLY
CAPACITORS		
C1213-C1214,C1221	22-3226052-00-43	CAP ELEC SS 2.2uF 50V 20%
C1222-C1223	22-3101022-00-43	CAP ELEC SS 100uF 16V 20%
FIBRE OPTICAL		
J1005-J1006	26-6701380-01-16	FIBRE OPTIC RECEIVING UNIT GP1FA550RZ
J1008	26-6691386-00-16	FIBRE OPTIC TRANSMITTER GP1FA550TZ
ICS		
U1201-U1202	27-0804990-18-00	I.C. HEX INVERTER SMD SOP M74HCU04MIR
U1203	27-0125190-18-00	I.C. 8-CHANNEL MULTIPLEXER-SSOP 74HC251M1R
RCA JACKS		
J1001-J1004,J1007	34-4010320-00-60	RCA JACK 1 BLACK PCB MOUNT GOLD RS-146G/B
KEYBOARD		
PCB ASSEMBLY	80-0907620-02-00	KEYBOARD ASSEMBLY
DIODES		
D202,D219,D221	20-1001401-20-44	DIODE RECT 1A/400V DO41 1N4004
D212,D214-D218,D222	20-0000000-00-13	DIODE SW 4NS DO35 1N4148
D213	20-3227902-00-01	DIODE ZENER BZX55 2.7V 1/2W 5%
D220	20-3251902-00-01	DIODE ZENER BZX55 5.1V 1/2W 5%
D223	20-1001500-20-51	DIODE RECT 1A/50V DO41 1N4001
TRANSISTORS		
Q201	21-0100100-00-46	XTR SS PNP HFE 100 200MHz TO-92 A1015Y
Q202-Q207	21-0000010-00-46	XTR SS NPN HEF 100 200MHz TO-92 C1815Y

Reference No.	Part No.	Description
CAPACITORS		
C207-C211	22-3470022-00-43	CAP ELEC SS 47uF 16V 20%
C212	22-3102012-00-28	CAP ELEC GR 1000uF 10V 20%
C214	22-3100022-00-43	CAP ELEC SS 10uF 16V 20%
C224	22-3222032-00-34	CAP ELEC GS 2200uF 25V 20%
C255	22-3106052-00-43	CAP ELEC SS 1uF 50V 20%
IR		
D201	26-0941380-00-00	IR RX 940nm 37.9KHz SHIELD ST FM-7138TE5
ICS		
U201(A/V-R)-U202(VFD)	7-1086400-04-87	I.C. MCU 8 BIT 64KROM 512 BYTE SRAM PLCC M6759-A1F(sold as a pair)
U203	27-9630600-14-62	I.C. VFD DRIVER SMD QFP PT6306
U204-U207,U211	27-0540940-18-00	I.C. 8-STAGE SHIFT-AND-STORE BUS REGISTER HCF4094BM1
U208	27-0140510-18-00	I.C. SINGLE 8 CA ANALOG MUX/DEMUX SMD M74HC4051MIR
U210	27-2300225-00-25	I.C. EEPROM 2K BYTE 250nS PDIL ENDURANCE AT24C16
CRYSTALS		
X201A-X202A	28-5400200-06-33	CRYSTAL 40MHz 30ppm HC-49S
SWITCHES		
S201-S219	35-1001117-00-67	SW TACT NO 1P1T 50mA/12V VER H=7mm TM114BFJ
ENCODER		
M201	35-6001219-00-08	ENCODER ROTATRY L=20mm VERTICAL W/O CLICK ECB16F-1-24PS
VFD		
VD201	41-4340100-00-13	VFD 16-BT-93GNK
RESISTORS(SMD)		
R201-R207,R212-R213,R215,R219, R223-R227,R229,R231-R232,R253	44-0100220-51-00	RES SMD 10K OHM 5% 1/16W 0603
R211,R225,R234,R239	44-0100120-51-00	RES SMD 1K OHM 5% 1/16W 0603
R216	44-0390020-51-00	RES SMD 390 OHM 5% 1/16W 0603
R217-R218	44-0150120-51-00	RES SMD 1.5K OHM 5% 1/16W 0603
R220,R236-R237	44-0470120-51-00	RES SMD 4.7K OHM 5% 1/16W 0603
R221,R230,R254	44-0220120-51-00	RES SMD 2.2K OHM 5% 1/16W 0603
R222	44-0220020-51-00	RES SMD 220 OHM 5% 1/16W 0603
R233	44-0470220-51-00	RES SMD 47K OHM 5% 1/16W 0603
R238	44-0120220-51-00	RES SMD 12K OHM 5% 1/16W 0603
R241-R242	44-0100020-51-00	RES SMD 100 OHM 5% 1/16W 0603
R251-R252	44-0100520-51-00	RES SMD 10M OHM 5% 1/16W 0603
CAPACITORS(SMD)		
C201-C202,C213,C215-C221	45-0104056-57-57	CAP CER SMD 0.1uF 50V 20% Y5V 0603

Reference No.	Part No.	Description
C222,C241-C242	45-0102055-55-57	CAP CER SMD 1nF 50V 10% X7R 0603
C223	45-0123055-55-57	CAP CER SMD 12nF 50V 10% X7R 0603
C251-C254	45-0330055-55-57	CAP CER SMD 33pF 50V 10% X7R 0603
LED BAORD		
PCB ASSEMBLY	80-0907620-32-00	LED ASSEMBLY
LEDs		
D211	26-0012587-01-10	LED RED-GREEN CIRCULAR 5X807mm L-59SRKSGW-CA C ANODE
MAIN BOARD		
PCB ASSEMBLY	80-0907620-00-00	MAIN ASSEMBLY
DIODES		
D701-D712	20-1001401-20-44	DIODE RECT 1A/400V DO41 1N4004
D711	20-3227002-00-47	DIODE ZENER BZX55 27V 1/2W 5% DO35 BZX55-C27V
D714	20-0000000-00-13	DIODE SW 4NS DO35 1N4148
D715	20-5004700-50-02	DIODE BRI 4A/70V RS402L
D716-D718	20-3951943-50-01	DIODE ZENER ZY5.1 2W 10% DO-204AM ZY5.1
TRANSISTOR		
Q701	21-0000140-00-11	XTR SS NPN HFE 120 100MHz TO-92 SS8050C
CAPACITORS		
C701,C705-C706,C716,C725	22-3102032-00-28	CAP ELEC GR 1000uF 25V 20%
C702,C719,C723	22-3101022-00-43	CAP ELEC SS 100uF 16V 20%
C704	22-3332042-00-28	CAP ELEC GR 3300uF 35V 20%
C707	22-3222042-00-34	CAP ELEC GS 2200uF 35V 20%
C710	22-3470052-00-43	CAP ELEC SS 47uF 50V 20%
C711-C713	22-3102052-00-28	CAP ELEC GR 1000uF 50V 20%
C721,C724	22-3222032-00-34	CAP ELEC GS 2200uF 25V 20%
REGULATORS		
U701,U704-U706	27-3000501-17-14	VOLT REG 5V 1A TO-220 NJM7805FA
U702,U707	27-3001201-17-14	VOLT REG 12V 1A TO-220 NJM7812
U703	27-3101201-13-14	VOLT REG TO-220F NJM7912
MULTI-CHANNEL BOARD		
PCB ASSEMBLY	80-0907620-64-00	MULTI-CHANNEL ASSEMBLY
DIODE		
D601	20-0000000-00-1	DIODE SW 4NS DO35 1N4148

Reference No.	Part No.	Description
TRANSISTORS		
Q601-Q602	21-0000360-00-00	XTR SS NPN HFE200-700 30MHz 2SC2878A
Q603	21-0100390-70-14	XTR SS PNP HFE 30 250MHz SPT DTA 114ESA
Q604	21-0000400-70-14	XTR SS NPN HFE30 250MHz SPT DTC114ESA
Q626,Q628	21-0000120-70-14	XTR SS NPN HFE 68 30MHz SPT DTC144ES
Q627	21-0000450-70-14	XTR SS NPN 68 250MHz SPT DTA144ESA
CAPACITORS		
C607,C611-C612,C619-C623,C681-C683	22-3220022-00-43	CAP ELEC GS 22uF 16V 20%
C626	22-3221022-00-43	CAP ELEC SS 220uF 16V 20%
C677-C678,C689-C690	22-3470022-00-43	CAP ELEC SS 47uF 16V 20%
ICS		
U601	27-7891640-21-11	I.C. HIGH VOLTAGE ANALOG SWITCH ARRAY TC9164AN
U604	27-9496600-21-02	I.C. QUAD BILATERAL SWITCH LC4966
U605-U608	27-7055320-18-14	I.C. AUDIO LOW NOISE OP-AMP SMD NJM5532M
RCA JACKS		
M601,M603	34-4060420-00-60	RCA JACK 6 R-R-R/W-W-W PCB MOUNT GOLD RCA-653D-04
M602	34-4020320-00-60	RCA JACK 2 B/B PCB MOUNT GOLD RS-253G-02
RESISTORS(SMD)		
J601-J603	44-0000027-11-00	RES SMD 0 OHM 5% 1/10W 0805 TAPE
PRE-OUT BOARD		
PCB ASSEMBLY	80-0907620-63-00	PRE-OUT ASSEMBLY
DIODES		
D602,D604	20-3275902-00-01	DIODE ZENER BZX55 7.5V 1/2W 5%
D605-D614	20-0000000-00-13	DIODE SW 4NS DO35 1N4148
TRANSISTORS		
Q605	21-0000140-00-11	XTR SS NPN HFE 120 100MHz TO-92 SS8050C
Q607	21-0100131-00-11	XTR SS PNP HFE 170 1.5A TO-92 SS8550C
Q608-Q615,Q617,Q629-Q630,Q632-Q633	21-0000350-70-00	XTR SS NPN HFE200-700 30MHz SPT RN1241A
Q616,Q618,Q620,Q622,Q624,Q631	21-0100390-70-14	XTR SS PNP HFE 30 250MHz SPT DTA 114ESA
CAPACITORS		
C613-C618,C624-C625,C635-C636, C710-C711,C751-C752	22-3336052-00-43	CAP ELEC SS 3.3uF 50V 20%

Reference No.	Part No.	Description
C627-C628,C633-C634	22-3101022-00-43	CAP ELEC SS 100uF 16V 20%
C637,C642,C647,C652,C657,C662, C667,C672,C700,C705	22-3100022-00-43	CAP ELEC SS 10uF 16V 20%
C640,C645,C650,C655,C660,C665, C670,C675,C703,C708	22-3220022-00-43	CAP ELEC GS 22uF 16V 20%
C679-C680,C691-C692	22-3470022-00-43	CAP ELEC SS 47uF 16V 20%
C684-C688,C699	22-3331022-00-28	CAP ELEC GR 330uF 16V 20%
C693-C694,C753-C754	22-4182203-10-10	CAP MYLAR KT-G 8.2nF 100V 10%
C695-C696,C747-C748	22-4115303-10-28	CAP MYLAR MCC-R 15nF 100V 10%
C697-C698,C749-C750	22-4233402-00-31	CAP MPF 0.33uF 5%
RESISTORS		
R635,R642,R647,R654,R659,R666, R678,R694,R701	23-1150102-00-00	RES MF 1.5K OHM 1% 1/8W
R636,R643,R648,R655,R660,R667, R672,R679,R695,R702	23-1330002-00-00	RES MF 330 OHM 1% 1/6W
R671	23-1220102-00-00	RES MF 2.2K OHM 1% 1/6W
INDUCTORS		
L601	24-0101108-00-28	IND CHOKE 100uH 10% AXIAL EC24-101K
L603-L604	24-0100127-00-28	IND CHOKE 10uH 10% EC36 AXIAL EC36-100K
ICS		
U602-U603	27-7262440-10-01	I.C. AUDIO 6CH VOL/TONE CONTROL M62446AFP
U609-U613	27-7055320-18-14	I.C. AUDIO LOW NOISE OP-AMP SMD NJM5532M
RCA JACKS		
M607,M609	34-4040520-00-60	RCA JACK 4 R-W/R-W PCB MOUNT GOLD RS-453G-08
M608,M612	34-4020320-00-60	RCA JACK 2 B/B PCB MOUNT GOLD RS-253G-02
M610	34-4020220-00-60	RCA 2 W/W PCB MOUNT GOLD RS-253G W/SHIELD
M611	34-4010120-00-60	RCA 1 R PCB MOUNT GOLD RS-146G/R W/ SHIELD
POWER SUPPLY BOARD		
PCB ASSEMBLY*AH	80-0907620-01-00	POWER SUPPLY ASSEMBLY
PCB ASSEMBLY*C	80-0907620-01-01	POWER SUPPLY ASSEMBLY
DIODES		
D751	20-0000000-00-13	DIODE SW 4NS DO35 1N4148
D752-D755	20-1001401-20-44	DIODE RECT 1A/400V DO41 1N4004
TRANSISTOR		
Q751	21-0000010-00-46	XTR SS NPN HEF 100 200MHz TO-92 C1815Y
CAPACITORS		
C752	22-3470032-00-00	CAP ELEC GS 47uF 25V 20%

Reference No.		Part No.	Description
C763	⚠	22-1103470-35-45	CAP CER ECKDRS 10nF 400VAC +80/-20%
RESISTORS			
R751	⚠	23-5228330-00-00	RES FUSIBLE 0.22 OHM 10% 1/2W AXIAL
R754*AH	⚠	23-8395232-00-25	CONDUCTIVE PATH RESISTOR 3.9M OHM 1/2W 5% 250V
STANDBY TRANSFORMER			
T751*AH	⚠	25-0040057-01-18	XFORMER PW EI-35 120V UL/CUL T06206A WHP35-14A5F
T751*C	⚠	25-0040020-31-18	XFORMER PW EI-35 100V/220V T05382A RV.04
RELAY			
M751*AH	⚠	32-1212100-01-97	RELAY 12VDC/10A SPST SDT-S-112DMR TV-8 UL/CSA/TUV/SEMKO
M751*C	⚠	32-3112100-02-97	RELAY 12VDC/10A SPST PCB OMI-SS-112LM UL/CSA/VDE/SEMKO
FUSES & FUSE HOLDERS			
F751*AH	⚠	33-0191001-00-88	FUSE TIME-LAG 10A 250VAC 5X20mm VDE/UL/CSA
F751*C	⚠	33-0181006-00-88	FUSE TIME-LAG 6.3A 250VAC 5X20mm VDE/UL/CSA 5T
F752*AH	⚠	33-0111006-00-88	FUSE 1.6A 250V TIME LAG LBC 5x20mm UL/CSA/VDE/SEMKO
F752*C	⚠	33-0151006-00-88	FUSE 800mA 250V TIME LAG LBC 5x20mm 5T UL/CSA/VDE/SEMKO
FH751-FH752	⚠	33-1000000-00-88	FUSE CLIP 0.05mm FC-53-11
POWER SWITCH BAORD			
PCB ASSEMBLY		80-0907620-48-00	POWER SWITCH ASSEMBLY
CAPACITORS			
C764	⚠	22-1103470-35-45	CAP CER ECKDRS 10nF 400VAC +80/-20%
POWER SWITCH			
S751	⚠	35-0101109-00-67	SW POWER TV-8 10A 250VAC PS3-22SPA-P7AZ
RS232 BOARD			
PCB ASSEMBLY		80-0907620-38-0	S232 ASSEMBLY
CAPACITORS			
C901-C904		22-3106052-00-43	CAP ELEC SS 1uF 50V 20%
C905		22-3100022-00-43	CAP ELEC SS 10uF 16V 20%
IC			
U901		27-0723200-18-43	I.C. DUAL RS-232 TRANSMITTER SMD SOIC DS232AR

Reference No.	Part No.	Description
SECONDARY BOARD		
PCB ASSEMBLY	80-0907620-27-00	SECONDARY ASSEMBLY
CA[ACITORS		
C801-C804	22-3123072-00-41	CAP ELEC LP 12000uF 80V 20%
DIODES		
D801-D802	20-5125401-50-02	BRIDGE RECTIFIER 25A 400V MP254W BR-25W
ISC BOARD		
PCB ASSEMBLY	80-0907620-74-00	ISC ASSEMBLY
DIODES		
D801-D802	20-5125401-50-02	BRIDGE RECTIFIER 25A 400V MP254W BR-25W
D810,D824	20-5010401-50-47	DIODE BRI 10A/400V KBK10G
D811-D812,D825-D826	20-1912601-90-45	DIODE RECT 12A/600V TO-220 TYN612
D813,D823,D827-D828	20-0000000-00-13	DIODE SW 4NS DO35 1N4148
D821-D822	20-3212002-00-36	DIODE ZENER BZX55 12V 1/2W 5%
TRANSISTORS		
Q811,Q813,Q781-Q782	21-0100410-00-12	XTR SS PNP HFE 280-560 110MHz 2SA1016KG-AA
Q812,Q815,Q817-Q818,Q831,Q833	21-0000010-00-46	XTR SS NPN HEF 100 200MHz TO-92 C1815Y
Q830,Q832,Q814,Q816	21-0100100-00-46	XTR SS PNP HFE 100 200MHz TO-92 A1015Y
CAPACITORS		
C786-C789,C816-C820	22-4210402-00-31	CAP MPF 0.1uF 63V 5% DMF 5 SERIES
C801-C804	22-3123072-00-41	CAP ELEC LP 12000uF 80V 20%
C811-C813,C815,C829-C830,C832-C833	22-3100022-00-43	CAP ELEC SS 10uF 16V 20%
RESISTORS		
R790,R793,R813,R817	23-4228280-08-20	RES RN 0.22 OHM 5% 5W SIL 3 PIN
R826,R873	44-0100120-51-00	RES SMD 1K OHM 5% 1/16W
R827,R835,R874,R882	44-0100220-51-00	RES SMD 10K OHM 5% 1/16W
R828,R875	44-0470120-51-00	RES SMD 4.7K OHM 5% 1/16W
R833,R880	44-0680320-51-00	RES SMD 680K OHM 5% 1/16W
R837-R839 ⚠	23-5228330-00-00	RES FUSIBLE 0.22 OHM 10% 1/2W
R841-R840	23-2228232-00-00	RES MO 0.22 OHM 5% 1/2W
R877,R829,R876,R830	44-0100320-51-00	RES SMD 100K OHM 5% 1/16W
R879,R832,R831,R878	44-0220120-51-00	RES SMD 2.2K OHM 5% 1/16W
R834,R881	30-0503106-02-22	VR SEMI-FIXED 50K OHM 30% B 6mm HOR
IC		
U801	27-7055320-18-14	I.C. AUDIO LOW NOISE OP-AMP SMD NJM5532M

Reference No.	Part No.	Description
SPEAKER BOARD		
PCB ASSEMBLY	80-0907620-76-00	SPEAKER ASSEMBLY
SPEAKER TERMINALS		
M5101,M8101	34-3000021-00-80	SPK TER 6P BINDING R/B W/O PLUG KF-J5000-06
M5102	34-3000022-00-80	SPK TER 4P BINDING R/B W/O PLUG KF-J5000-04
S-VIDEO BOARD		
PCB ASSEMBLY	80-0907620-26-00	S-VIDEO ASSEMBLY
DIODES		
D4101-D4107	20-0000000-00-13	DIODE SW 4NS DO35 1N4148
TRANSISTORS		
Q4101,Q4103,Q4122,Q4131	21-0000120-70-14	XTR SS NPN HFE 68 30MHz SPT DTC144ES
Q4102	21-0000450-70-14	XTR SS NPN 68 250MHz SPT DTA144ESA
Q4107-Q4109,Q4110-Q4112, Q4116-Q4119	21-0100370-70-14	XTR SS PNP HFE 270-560 140MHz 2SA933AS
Q4120,Q4123	21-0000380-70-14	XTR SS NPN HFE20 250MHz DTC-123ESA
Q4121,Q4124-Q4125,Q4130,Q4128, Q4113-Q4114,Q4133	21-0000360-00-00	XTR SS NPN HFE200-700 30MHz 2SC2878A
Q4126-Q4127,Q4115	21-0000390-70-14	XTR SS NPN HFE270-560 180MHz 2SC1740S
Q4132	21-0000010-00-46	XTR SS NPN HEF 100 200MHz TO-92 C1815Y
CAPACITORS		
C4101-C4107,C4109-C4111,C4113-C4115,C4117-C4120,C4153,C4157	22-3226052-00-43	CAP ELEC SS 2.2uF 50V 20%
C4108,C4116,C4112,C4156	22-3471012-00-28	CAP ELEC GR 470uF 10V 20%
C4123-C4124	22-3221012-00-43	CAP ELEC SS 220uF 10V 20%
C4133,C4141	22-3106052-00-43	CAP ELEC SS 1uF 50V 20%
C4134,C4145,C4149	22-3101012-00-43	CAP ELEC SS 100uF 10V 20%
C4137,C4144	22-3477052-00-43	CAP ELEC SS 0.47uF 50 20%
C4138	22-7200210-00-09	CAP TRIMMER 20pF 20%
C4146,C4136	22-4247402-00-31	CAP MPF 0.47uF 63V 5% DMF 5 SERIES
C4150,C4158	22-3470022-00-43	CAP ELEC SS 47uF 16V 20%
C4151	22-3100022-00-43	CAP ELEC SS 10uF 16V 20%
INDUCTORS		
L4102	24-0220107-00-28	IND CHOKE 22uH 10% AXIAL EC24-220K
L4101	24-0569107-00-28	IND CHOKE 5.6uH 10% AXIAL EC24-5R6K
ICS		
U4101	27-5574763-21-02	I.C. OSD DIP LC74763-9012

Reference No.	Part No.	Description
U4102,U4103	27-5076250-21-23	I.C. AV SWITCH DIP BA7625
U4104	27-9496600-21-02	I.C. QUAD BILATERAL SWITCH LC4966
CRYSTALS		
X4101	28-5143200-06-19	CRYSTAL 14.318MHz 30ppm HC-49S
X4102	28-5177200-06-19	CRYSTAL 17.73447MHz 30ppm HC-49S
DIN JACKS		
M411-M418	34-4110300-00-60	DIN JACK 1 BLACK PCB MOUNT MD-113
SLIDE SWITCH		
S4101	35-4102209-00-67	SW SLIDE 2P2T RIGHT L=9 JSK022N09-G09
TRIGGER BOARD		
PCB ASSEMBLY	80-0907620-68-00	TRIGGER ASSEMBLY
DIODES		
D351-D353	20-3251902-00-01	DIODE ZENER BZX55 5.1V 1/2W 5%
D354-D356	20-0000000-00-13	DIODE SW 4NS DO35 1N4148
TRANSISTORS		
Q351,Q352	21-0000380-70-14	XTR SS NPN HFE20 250MHz DTC-123ESA
REGULATOR		
U352	27-3001201-17-14	VOLT REG 12V 1A TO-220 NJM7812
JACKS		
M351-M357	34-4310300-00-60	PHONE JACK 3.5mm RIGHT ST-030-07
SWITCH		
S351	35-4102209-00-67	SW SLIDE 2P2T RIGHT L=9 JSK022N09-G09
VIDEO-6 BOARD		
PCB ASSEMBLY	80-0907620-45-00	VIDEO ASSEMBLY
CAPACITORS		
C4401-4403	22-3226052-00-43	CAP ELEC SS 2.2uF 50V 20%
JACKS		
M4401	34-4010000-01-60	RCA JACK 1 YELLOW PCB MOUNT GOLD RS-105G/Y
M4402	34-4110300-00-60	DIN JACK 1 BLACK PCB MOUNT MD-113
M4403	34-4010200-01-60	RCA 1 WHITE PCB MOUNT GOLD RS-105AG/W
M4404	34-4010100-01-60	RCA JACK 1 RED PCB MOUT GOLD RS-105AG/R

Reference No.	Part No.	Description
J4401	34-4510302-00-60	PHONE JACK D6.3 1 PCB MOUNT ST-016S-01
COMPOSITE VIDEO BOARD		
PCB ASSEMBLY	80-0907620-42-00	COMPOSITE VIDEO ASSEMBLY
TRANSISTORS		
Q4201-Q4203,Q4207-Q4208	21-0100370-70-14	XTR SS PNP HFE 270-560 140MHz 2SA933AS
Q4204,Q4206	21-0000120-70-14	XTR SS NPN HFE 68 30MHz SPT DTC144ES
Q4205	21-0000450-70-14	XTR SS NPN 68 250MHz SPT DTA144ESA
CAPACITORS		
C4201-C4203,C4205,C4207,C4209-C4210,C4216-C4217	22-3226052-00-43	CAP ELEC SS 2.2uF 50V 20%
C4204,C4206,C4208,C4211,C4218	22-3471012-00-28	CAP ELEC GR 470uF 10V 20%
ICS		
U4201	27-9496600-21-02	I.C. QUAD BILATERAL SWITCH LC4966
U4202-U4203	27-5076250-21-23	I.C. AV SWITCH DIP BA7625
RCA JACKS		
M421-M422 RS-454-03	34-4040020-00-60	RCA JACK 4 Y-Y/Y-Y PCB MOUNT GOLD
M423	34-4010000-00-60	RCA 1 Y PCB MOUNT GOLD RS-146G/Y
RESISTORS (SMD)		
J4201-J4202	44-0000027-11-00	RES SMD 0 OHM 5% 1/10W 0805 TAPE

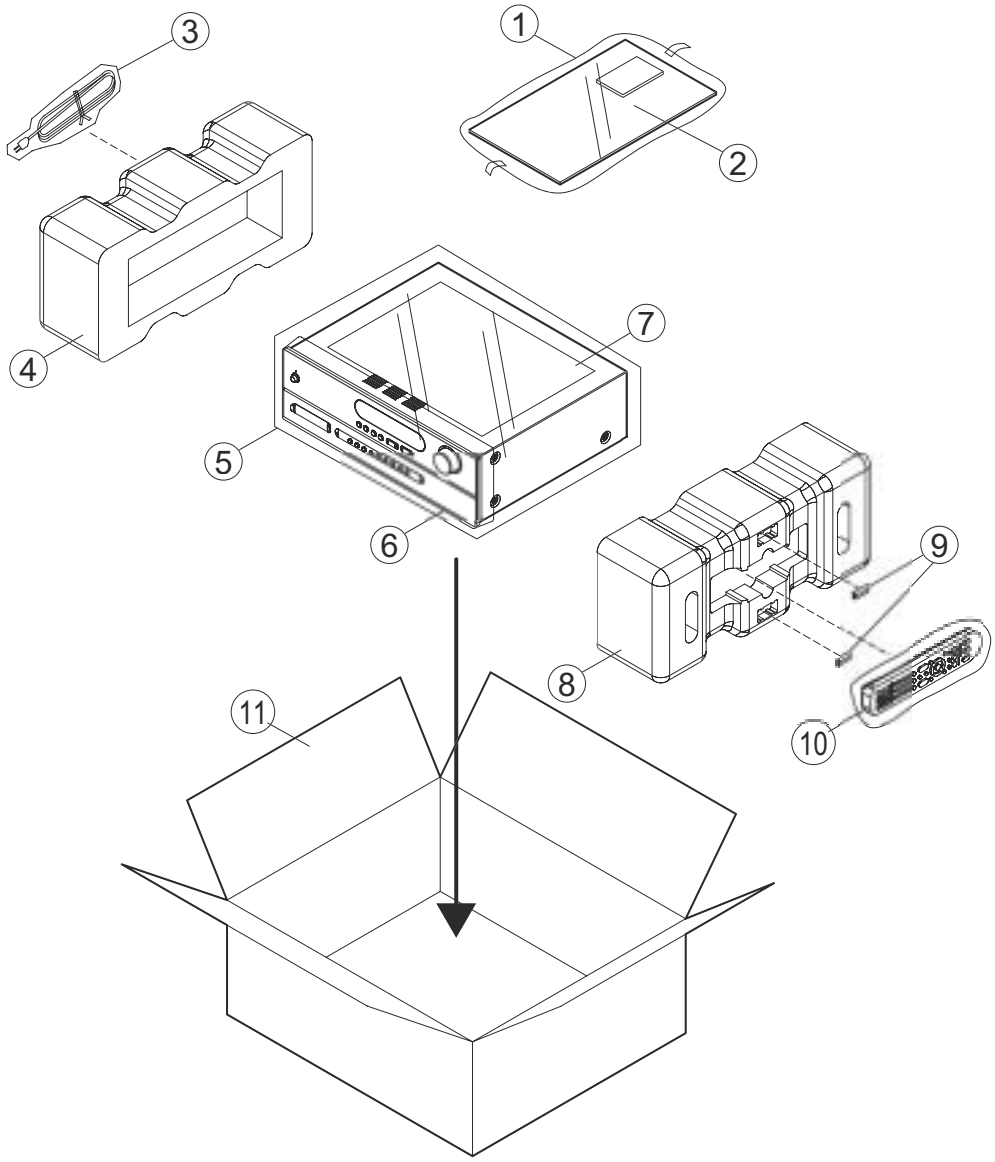
NOTE: THE COMPONENTS IDENTIFIED BY ⚠ MARK ARE CRITICAL FOR RISK OF FIRE AND ELECTRICAL SHOCK. REPLACE ONLY WITH PART NUMBER SPECIFIED.

<*AH > : USA, CANADIAN MODEL ONLY.

<*C > : EUROPEAN MODEL ONLY.

RESISTORS: MO-METAL OXIDE, RN-CERAMIC CASE, MF-METAL FILM.

PACKING DIAGRAM



Item	Part No.	Description	Qty.
1	64-0200001-01-00	POLYBAG MANUAL	1
2	31-6407520-00-98	FM WIRE ANTENNA	1
	31-6472801-00-28	AM LOOP ANTENNA W/STAND	1
	34-0081004-00-67	300 TO 75 OHM ADAPTER	1
	37-0240300-00-81	LITHIUM BUTTON CELL CR2025	1
	61-0762004-40-99	OWNER'S MANUAL T762 GB/F/D/NL	1
	61-0762004-41-99	OWNER'S MANUAL T762 E/I/P/S	1
	83-0762000-00-04	REMOTE CONTROLLER NAD ZR-2	1
3 ⚠	36-2871010-07-88	POWER CORD 110V 3PINS 15A/125V UL/CSA	1
	36-2983110-07-97	POWER CORD CE 3 PINS 10A/16A 250V	1
4 ⚠	63-0762001-00-01	POLYFOAM ENDCAP LEFT	1
5	64-0762001-00-00	POLYBAG MAIN UNIT	1
6	64-0762000-00-00	EPE PROTECTIVE COVER	1
7	65-0752070-00-99	A3 WHITE PAPER	1
8	63-0762002-00-01	POLYFOAM ENDCAP RIGHT	1
9	37-0020200-00-79	BATTERY AAA 1.5V	4
10	83-0752000-00-04	REMOTE CONTROLLER NAD HTR-2	1
11	67-0762000-11-99	MASTER CARTON BOX	1

VERSION HISTORY

SERIAL NUMBER	SOFTWARE VER.	PCB ASSEMBLY VERSION
R2ZT76200001-R2ZT76200003	V1.12	ALL ARE A6 PCB ASSEMBLY
R2ZT76200004-R2ZT76200360	V1.13	ALL ARE A6 PCB ASSEMBLY
R2ZT76200361-R2ZT76200900	V1.18	ALL ARE A6 PCB ASSEMBLY

T 762i VERSION PART NUMBERS

SERIAL NUMBER	SOFTWARE VER.	PCB ASSEMBLY VERSION
R35T762i4101 - R35T762i4540	V1.20	ALL ARE A6 PCB ASSEMBLY
R37T762i4541 - R37T762i4600	V1.22	ALL ARE A6 PCB ASSEMBLY
		ALL ARE A6 PCB ASSEMBLY

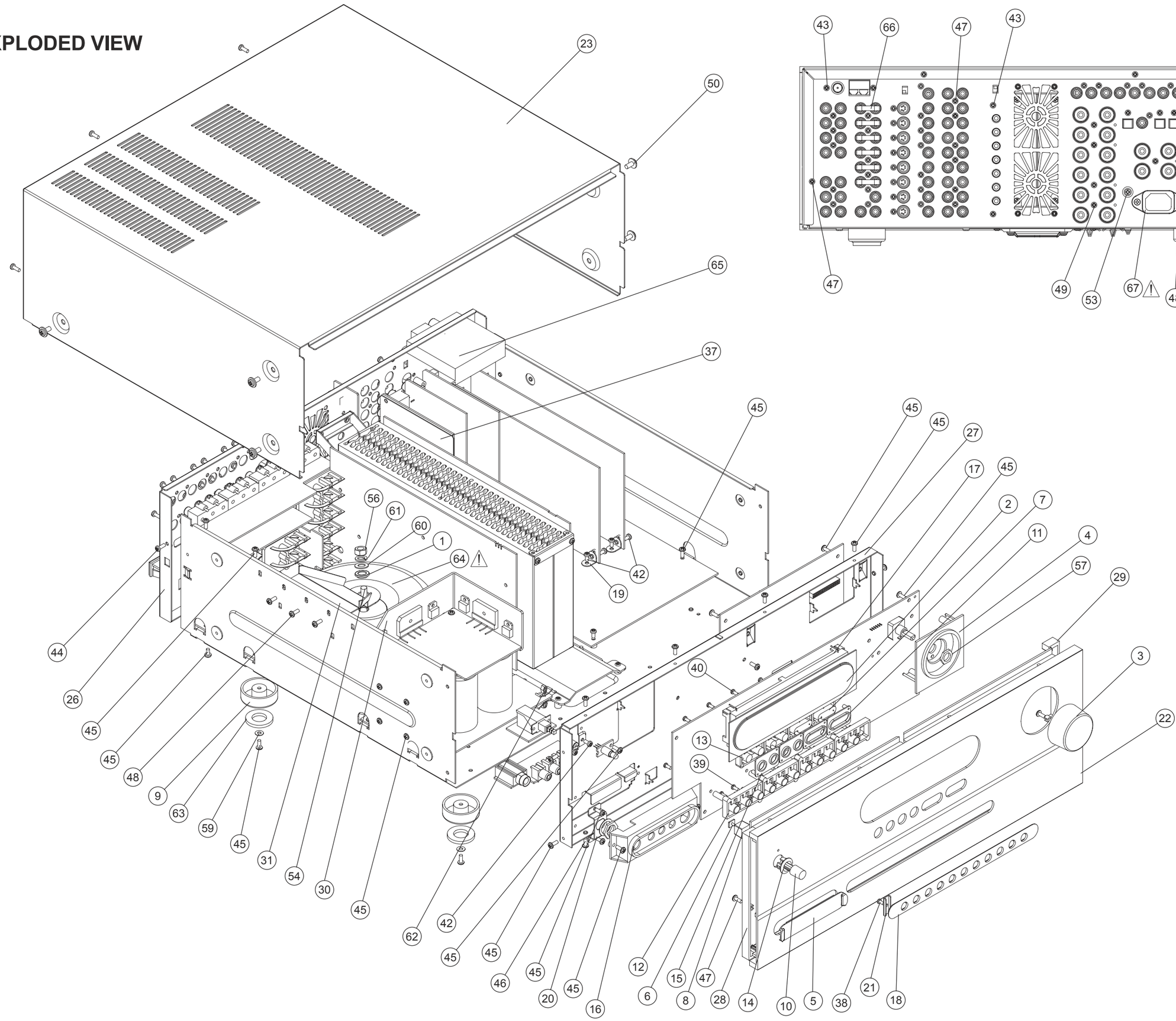
NAD® T 762i

Surround Sound Receiver

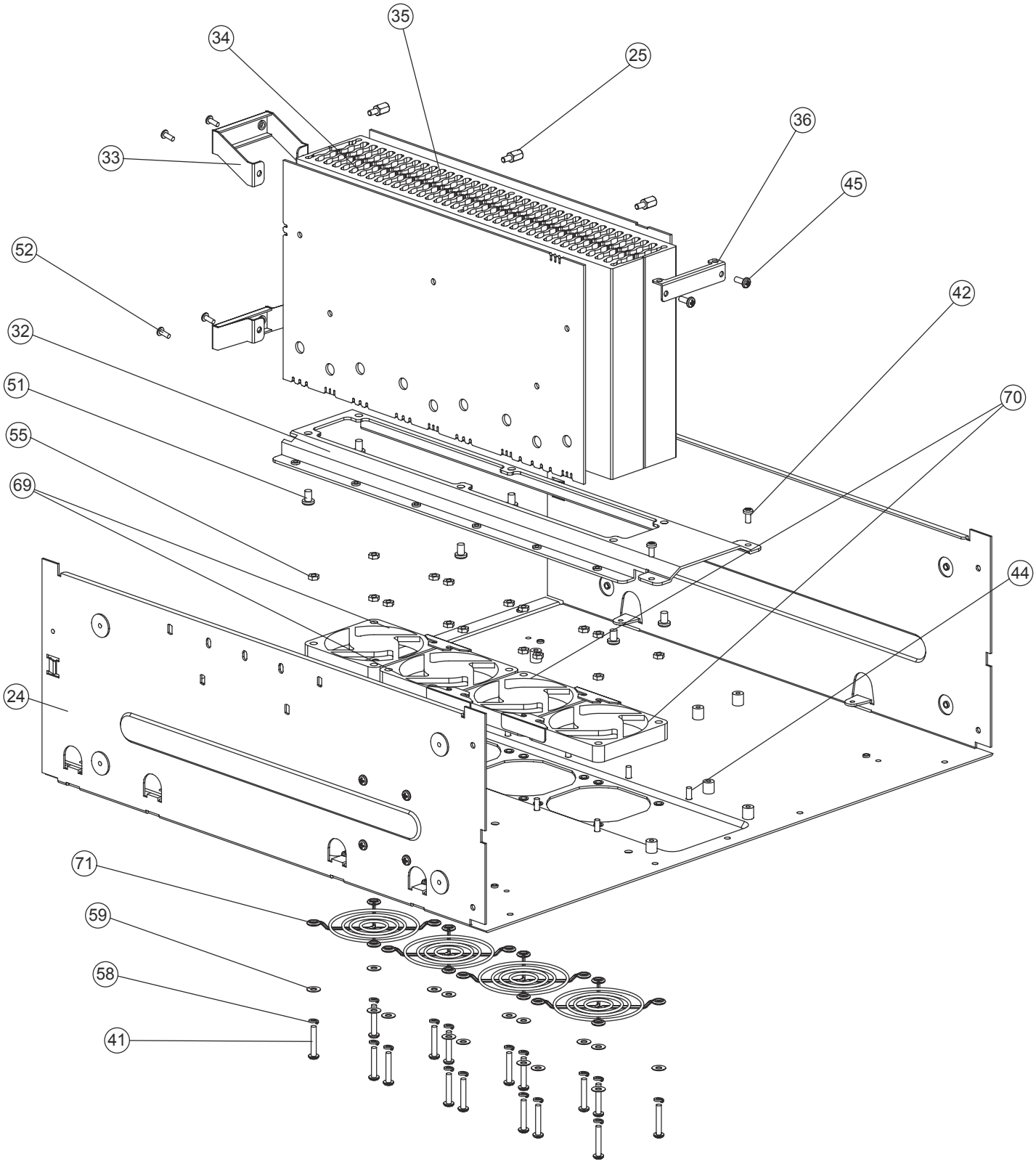
EXPLODED VIEW ..... 2 - 3
EXPLODED VIEW PARTS LIST ..... 4 - 5

ISSUE DATE: 30 MAR 2004

T 762i EXPLODED VIEW



T 762i EXPLODED VIEW



T 762i EXPLODED VIEW PARTS LIST

Item	Part No.	Description	Qty.
1	02-0000019-00-00	NYLON OD16.5 X 9.3 X 3.5mm	1
2	10-0752001-00-10	WINDOW LENS	1
3	11-0752002-72-00	VOLUME KNOB ASSY	1
4	10-0752005-71-00	VOLUME BEZEL	1
5	10-0752007-01-00	VIDEO COVER	1
6	10-0752011-00-00	LED LENS	1
7	10-0752012-01-00	RACKER BUTTON	2
8	10-0752015-01-02	LED BEZEL	1
9	10-0752017-01-00	PLASTIC FOOT	4
10	10-0752022-01-00	POWER BUTTON	1
11	10-0752025-01-00	RACKER BEZEL	2
12	10-0752032-01-00	INPUT BUTTON	4
13	10-0752042-01-00	DUO BUTTONS	2
14	10-0752045-01-00	POWER BUTTON BEZEL	1
15	10-0752055-01-00	DUO BEZEL	2
16	10-0752065-01-00	VIDEO HOUSING	1
17	10-0752075-00-00	DISPLAY BRACKET	1
18	10-0762035-71-00	INPUT BUTTON LOZENGE	1
19	11-0570075-80-01	L BRACKET	2
20	11-0752065-80-00	PHONE BRACKET	1
21	11-0752075-80-00	DUMMY BRACKET	1
22	11-0762000-95-11	FASCIA	1
23*AH	11-0762003-85-13	TOP COVER (AH)	1
23*C	11-0762013-85-13	TOP COVER (C)	
24	11-0762004-80-04	BOTTOM CHASSIS	1
25	11-0762005-80-00	HEX SPACER AF5.5 H8+6	10
26*AH	11-0762006-94-12	REAR PANEL(AH)	1
26*C	11-0762016-94-12	REAR PANEL (C)	
27	11-0762025-80-01	SUBFASCIA	1
28	11-0762028-95-00	SIDE CAP L	1
29	11-0762038-95-00	SIDE CAP R	1
30	11-0762048-80-01	HEATSINK- RECTIFER	1
31	11-0762065-80-00	XORMER SUPPORT BRACKET	1
32	11-0762085-80-00	LARGE FAN MOUNTING BRACKET	1
33	11-0762095-80-00	HTSK SUPPORT BRACKET	2
34	11-0762098-94-00	NEW EXTRUDED HTSK LEFT	1
35	11-0762108-94-00	NEW EXTRUDED HTSK RIGHT	1
36	11-0752045-80-00	HEATSINK MOUNTING BRACKET	1
37	12-0762011-70-00	FIBER PAPER 133 X 98 X 0.8mm	1
38	13-0260500-02-00	SELF TAP SCREW 2.6 X 5 P/H TYPE B NI PLT	1
39	13-0260600-02-00	SELF TAP SCREW 2.6 X 6 P/H TYPE B NI PLT	9
40	13-0260803-02-00	SELF TAP SCREW 2.6 X 8 B/H TYPE B NI PLT	16
41	14-0300180-02-00	MACHINE SCREW M3 X 18 P/H NI PLT	16
42	14-0300600-02-00	MACHINE SCREW M3 X 6 P/H NI PLT	20
43	14-0300600-04-00	MACHINE SCREW M3 X 6 P/H BLK	4
44	14-0300600-52-00	SELF TAP SCREW 3 X 6 P/H NI-PLT TYPE B	21
45	14-0300800-53-00	SELF TAP SCREW 3 X 8 B/B ZINC PLATED	39
46	14-0350803-52-00	TAPTITE SCREW 3.5 X 8.0 B/H TYPE B NI PLT	5
47	14-0300803-54-00	TAPTITE SCREW 3 X 8 B/H TYPE B BLK PLT	58
48	14-0300804-54-00	TAPTITE SCREW M3 X 8 K/H TYPE B BLK PLT	5

Item	Part No.	Description	Qty.
49	14-0301000-54-00	TAPTITE SCREW 3 X 10 P/H TYPE B BLK	5
50	14-0400802-04-00	MACHINE SCREW M4 X 8 WASHER HEAD BLK	6
51	14-0400803-52-00	TAPTITE SCREW 4 X 8 B/H NI TYPE-B	6
52	14-0400803-54-00	TAPTITE SCREW 4 X 8 B/H BLK TYPE-B	4
53	14-0401002-04-00	MACHINE SCREW M4 X 10 WASHER HEAD BLK	1
54	14-0801005-03-02	HEX.BOLT M8 LENGTH=100mm ZN PLATED	1
55	15-0300240-05-20	NUT M3 X 2.4mm	16
56	15-0807600-05-30	HEX NUT M8 X 6.5 THK	1
57	15-0900220-11-30	NUT ZINC PLATED M9.0 X 2.2mm 11p	1
58	16-0320560-09-20	SPRING WASHER I/D 3.2 X O/D 5.6 0.9mm THK	44
59	16-0350080-04-35	STEEL WASHER I/D 3.5 X O/D 8.0 0.4mm ZINC PLT	22
60	16-0850160-10-30	METAL WASHER ID8.5 X OD16 X 1.0mm NI PLT	1
61	16-0851500-12-30	SPRING WASHER I/D 8.5 X O/D 12.5 X 1.9THK	1
62	17-0500960-00-01	PCB SUPPORTER H=9.6mm PCB HOLE 4mm	3
63	17-1402603-30-22	RUBBER FOOT I/D14 X O/D26 X 3 PORON HH-48C	4
64 ⚠	25-0090056-00-21	XFORMER PW TOROIDAL 120V/240V TI-0130203 ISS6	1
65*AH	29-4000003-00-38	AM/FM TUNER MODULE KST-MB114MA1-22	1
65*C	29-4000002-00-38	AM/FM TUNER MODULE KST-MB114MA1-23	
66	34-0061030-00-67	JUMPER PLUG PITCH 14mm	6
67 ⚠	34-0101000-00-67	AC SOCKET IEC 15A/250V	1
68*AH ⚠	34-0101001-00-70	AC OUTLET US POLARIZED 3512-MITIBKUC	1
68*C ⚠	34-0100002-00-78	AC OUTLET EURO CEE 7 2.5A/250V A302D0060P	
69	37-2011230-00-63	FAN DC 12V 0.09A 3000RPM W/450mm CONNECTOR	2
70	37-2011230-01-63	FAN DC 12V 0.09A 3000RPM W/350mm CONNECTOR	2
71	39-0000008-00-63	FAN GUARD 60mm DFG-60	4

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<*C > : EUROPEAN MODEL ONLY.

SERVICE MANUAL

T 762

AV SURROUND SOUND RECEIVER

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NAD ELECTRONICS LTD
LONDON

NAD®

T 762

Surround Sound Receiver

SERVICE MANUAL

ADDENDUM

VERSION HISTORY 2

PCB LAYOUT - DSP BOARD (ISSUE 8 - 10) ..... 3 - 5

PCB LAYOUT - KEYBOARD (ISSUE 8 - 10) ..... 6 - 8

SCHEMATIC DIAGRAM - DSP BOARD (ISSUE 8 - 10) ..... 9 - 11

SCHEMATIC DIAGRAM - KEYBOARD (ISSUE 8 - 10) ..... 12 - 14

ISSUE DATE: APRIL 2005

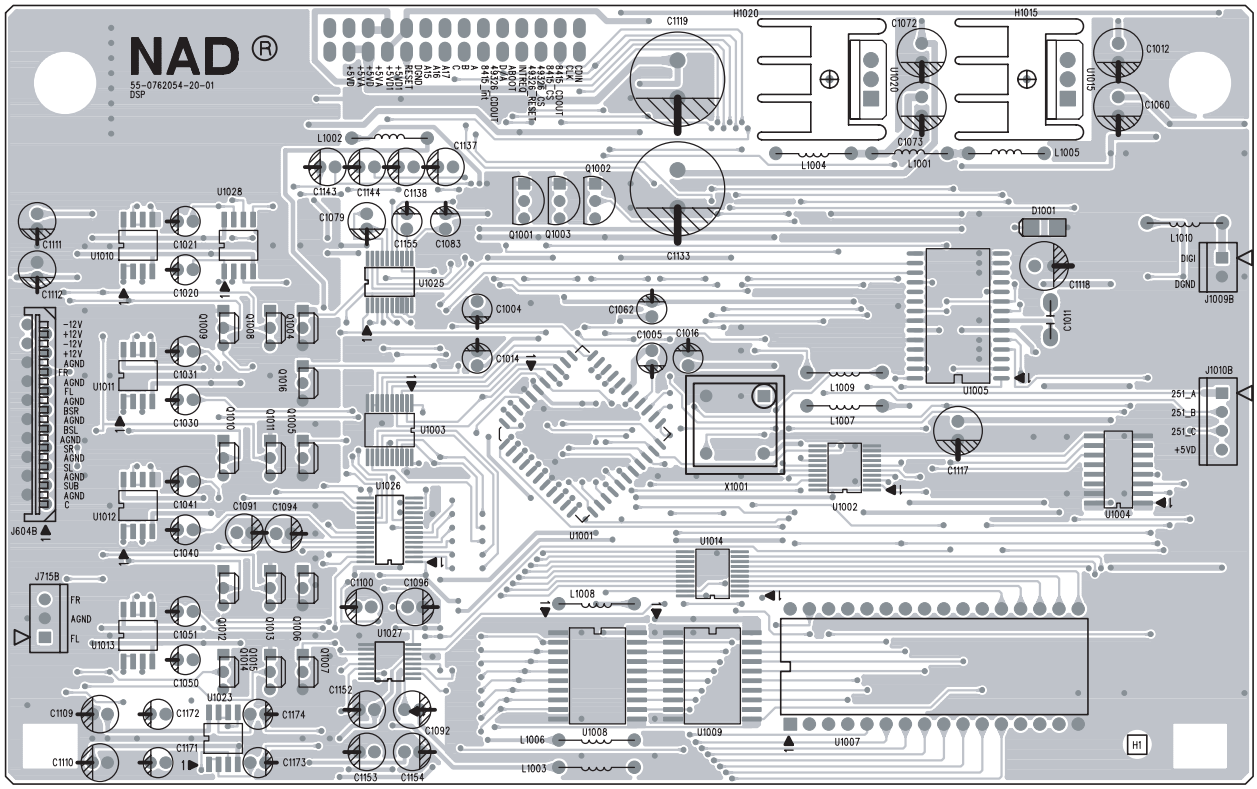
VERSION HISTORY

ISSUE	DESC. / PART NO.	CAUSE(S)	SERIAL NUMBER
ISSUE 6	DSP : 55-0762054-20-00 (CNC BOARD)	• Change FFC connector to pin connector	R2ZT76200001-R2ZT76200400
	KEYBOARD : 55-0762003-20-00 (CNC BOARD)	• Change FFC connector to pin connector	
ISSUE 7	DSP : 55-0762054-20-00 (TOOLED PCB)	• Move A/D Component • Add Coil in Digital Input • Del Wire form Crystal to Chassis	R2ZT76200401-R2ZT76201400
	KEYBOARD : 55-0762003-20-00 (TOOLED PCB)	• Add Supply E.Cap • Add Transistor for IR_OUT	
ISSUE 8	DSP : 55-0762054-20-01 (TOOLED PCB)	• Add test pin	R31T76201401-R31T76202198
	KEYBOARD : 55-0762003-20-01 (TOOLED PCB)	• Add missing connection of R229.2 to C223.1 • Add test pin	
ISSUE 9	DSP : 55-0762054-20-02 (TOOLED PCB)	• Add C.Cap C1181 for safety issue	R33T76202201-R33T76204100
	KEYBOARD : 55-0762003-20-02 (TOOLED PCB)	• Swap connection of TRIG_OUT_2 / TRIG_OUT_3	
ISSUE 10	DSP : 55-0762054-20-03 (TOOLED PCB)	• Add E.Cap C1182 for eliminate Pop noise	R35T76214101-R35T76214600
	KEYBOARD : 55-0762003-20-03 (TOOLED PCB)	• Delete Component of IR_OUT • C223 Change to Axial Type	

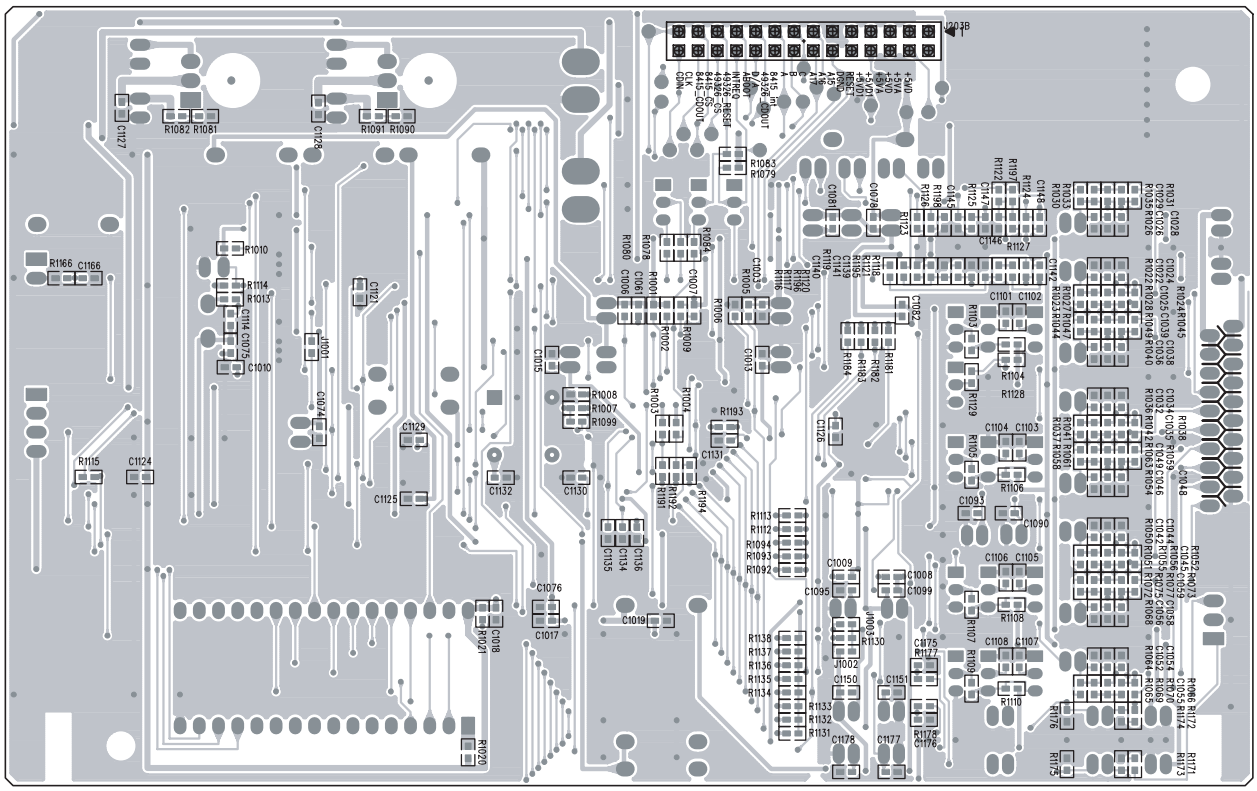
NOTE:
The PCBs are compatible use from Issue 7 to 10. (Issue 6 is not compatible use to other issue)

PCB LAYOUT
DSP BOARD (ISSUE 8)

COMPONENT SIDE

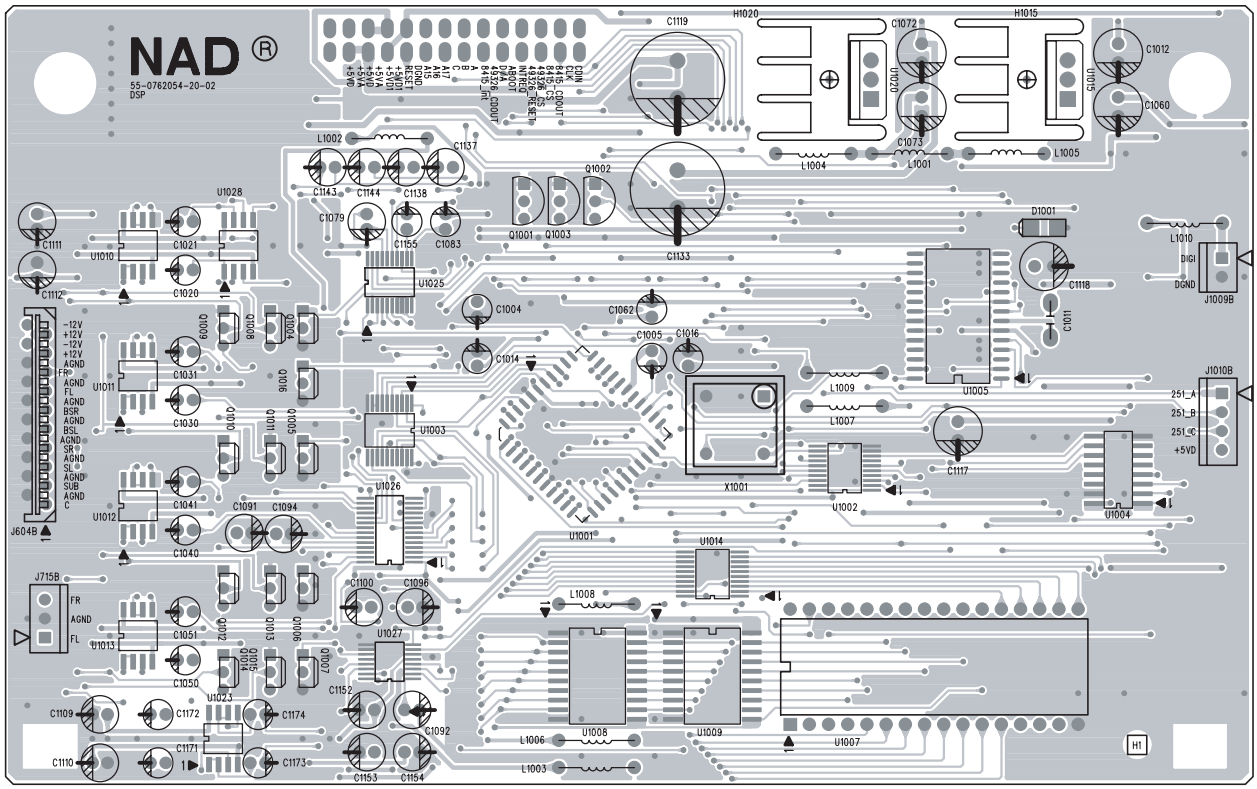


COPPER SIDE



PCB LAYOUT
DSP BOARD (ISSUE 9)

COMPONENT SIDE



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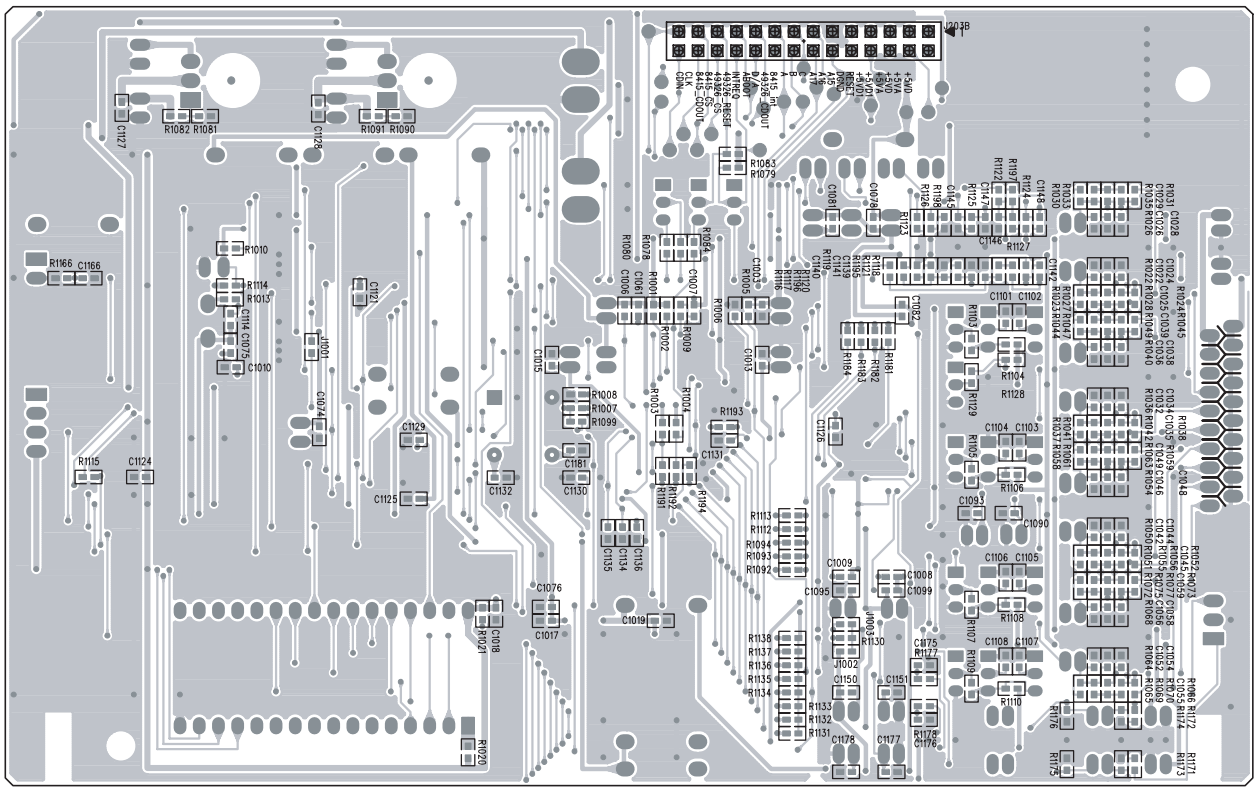
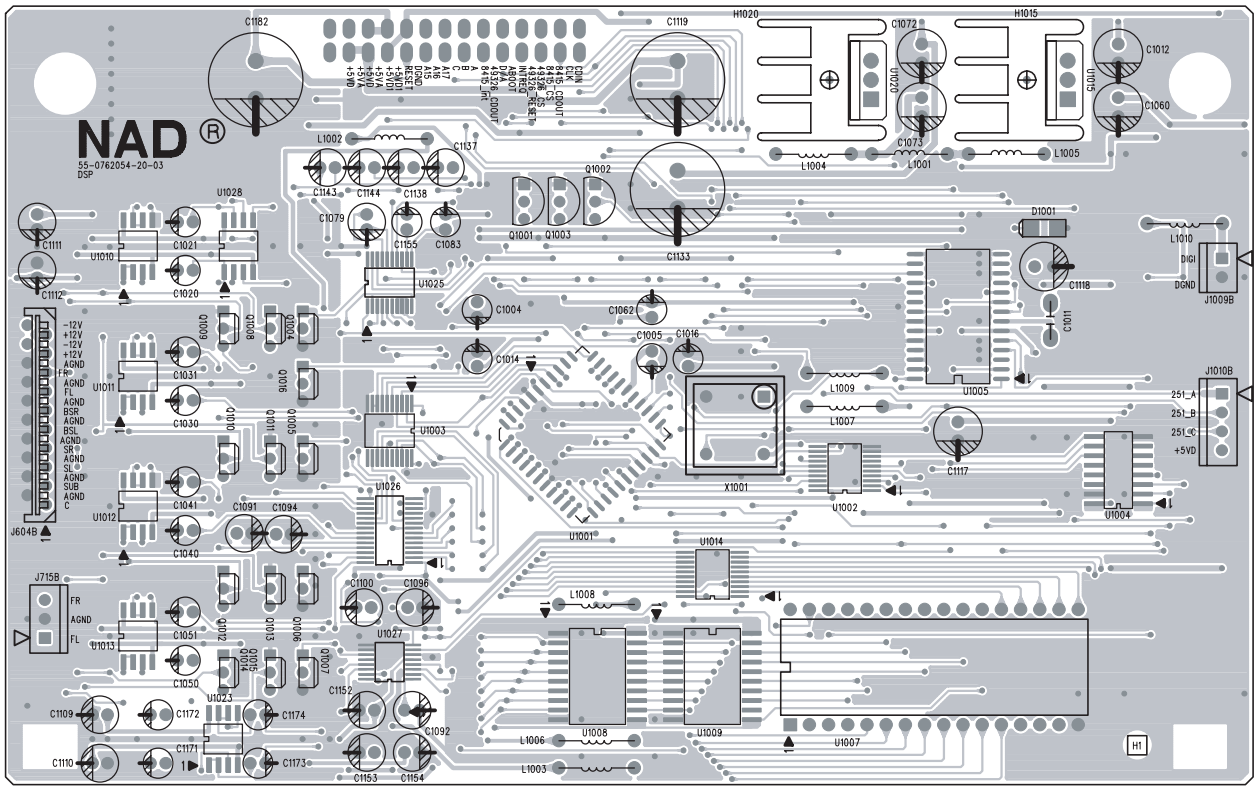


PCB LAYOUT
DSP BOARD (ISSUE 10)

COMPONENT SIDE



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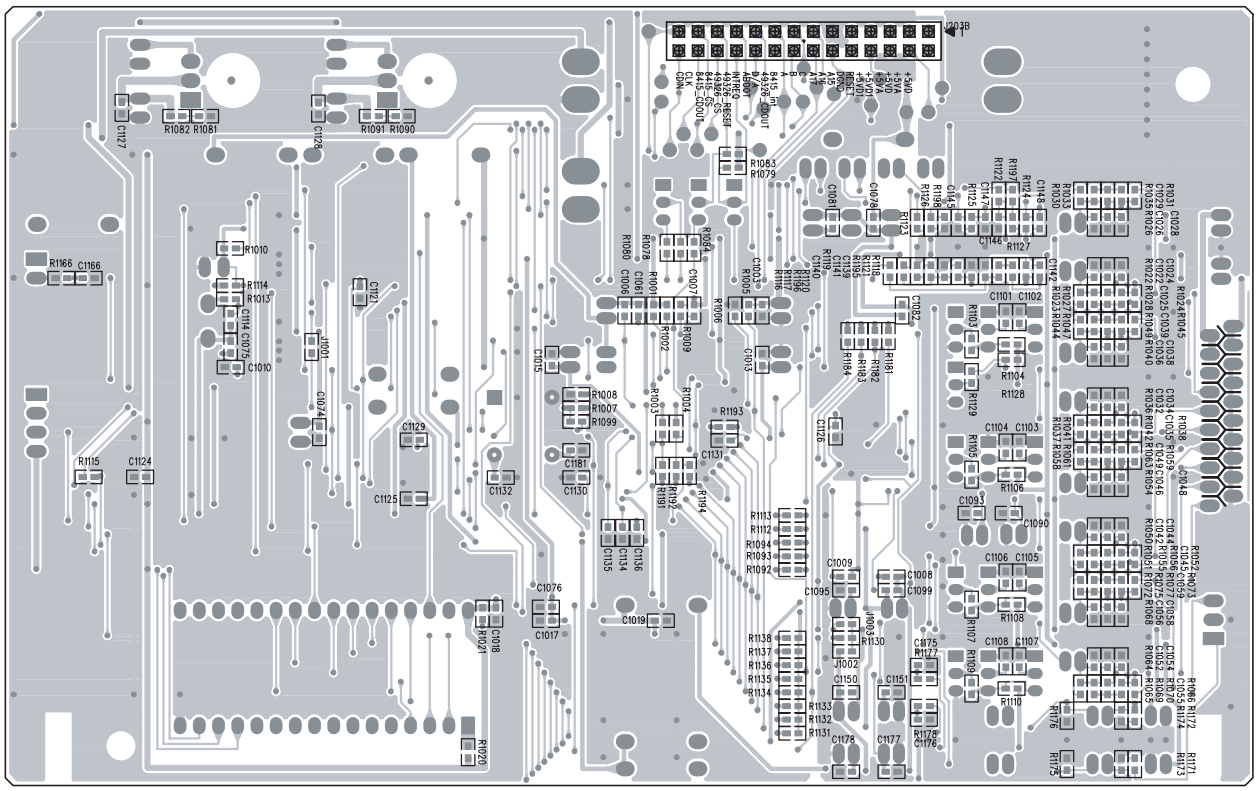
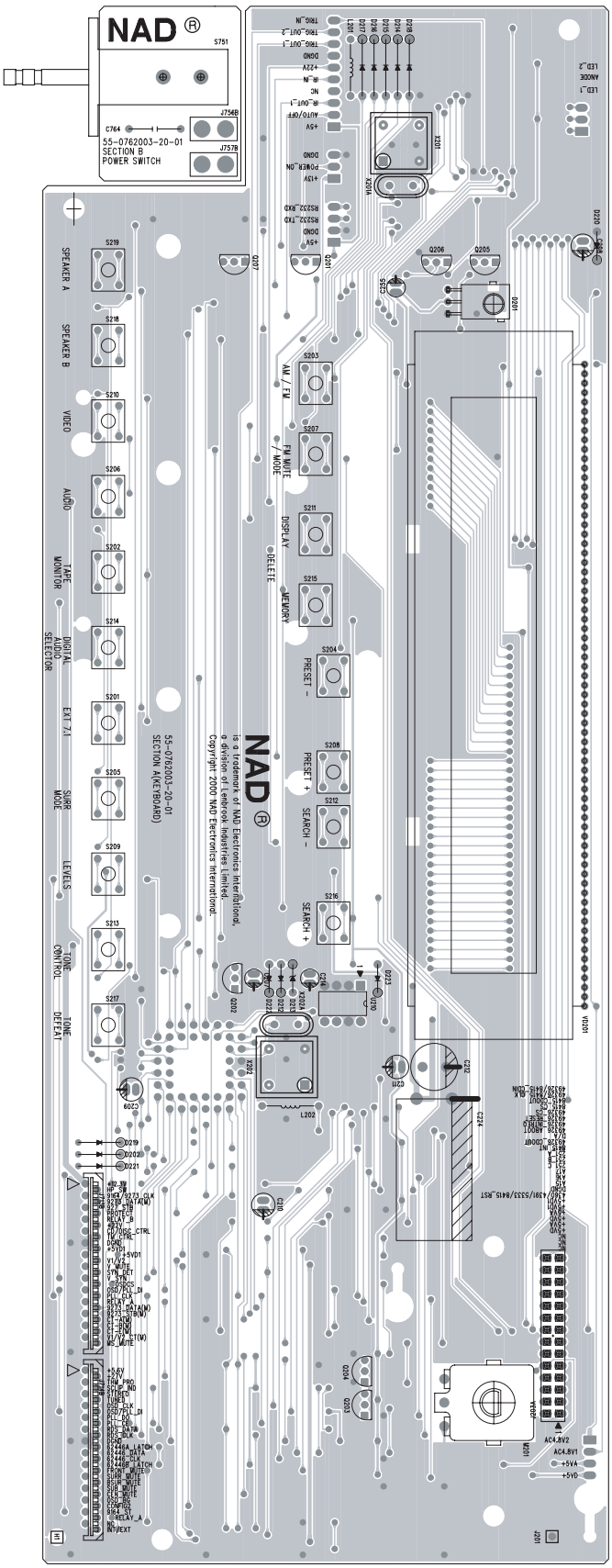


PCB LAYOUT
KEYBOARD (ISSUE 8)

COMPONENT SIDE



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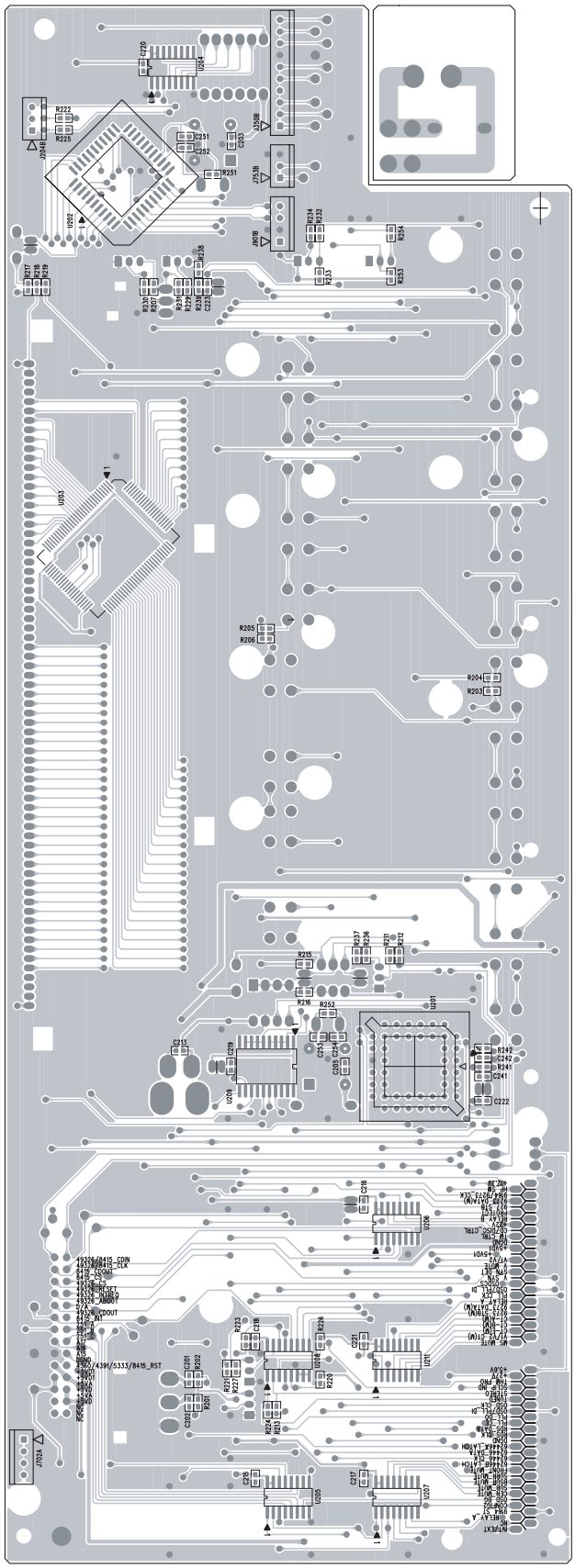
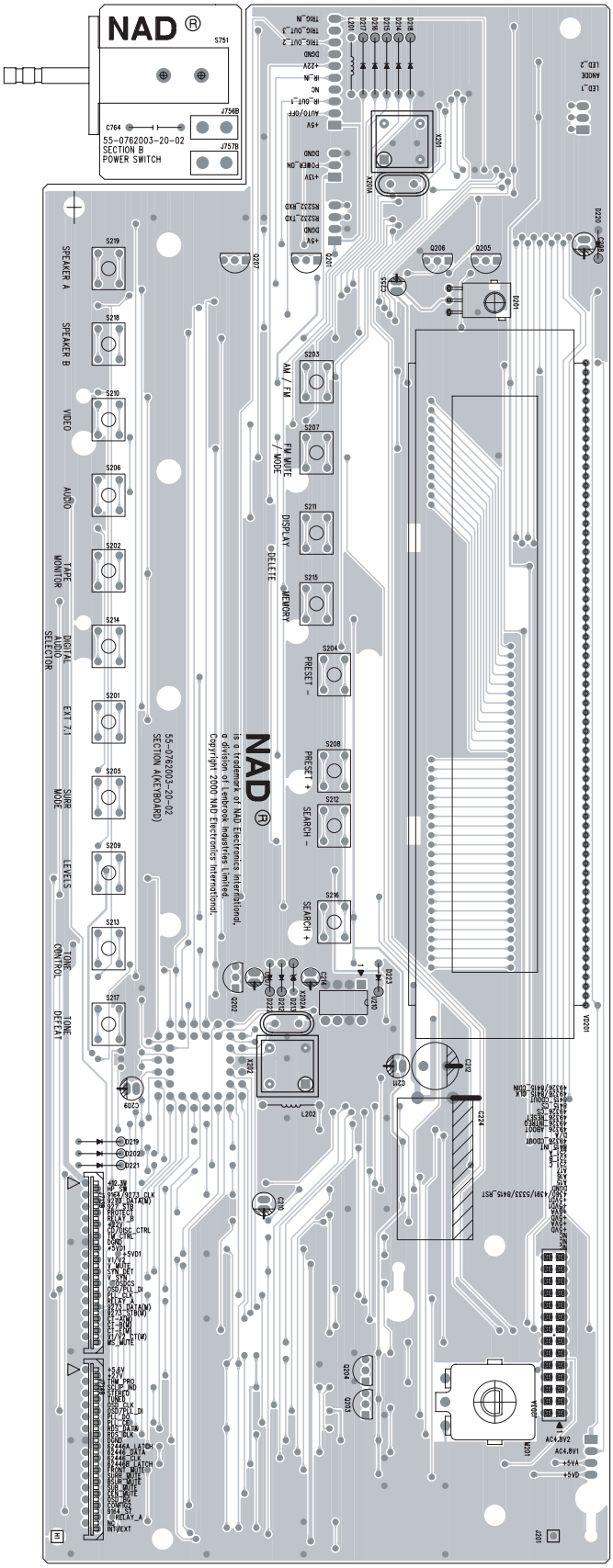


PCB LAYOUT
KEYBOARD (ISSUE 9)

COMPONENT SIDE



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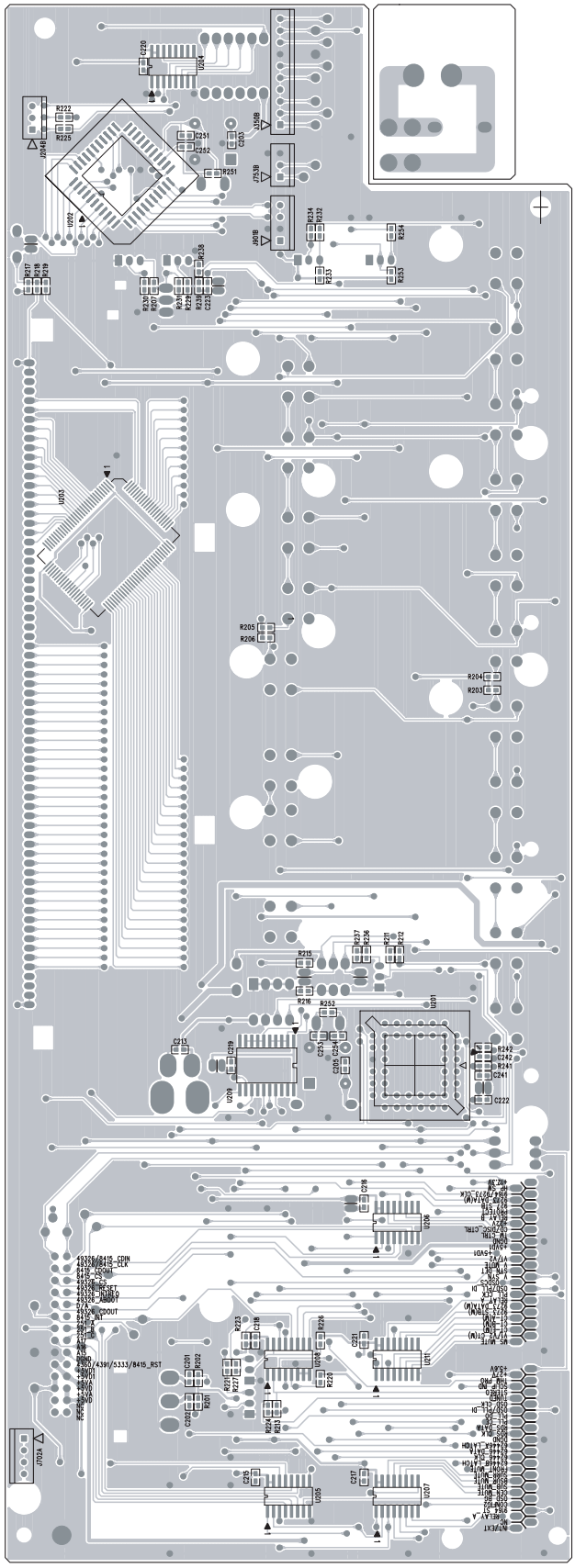
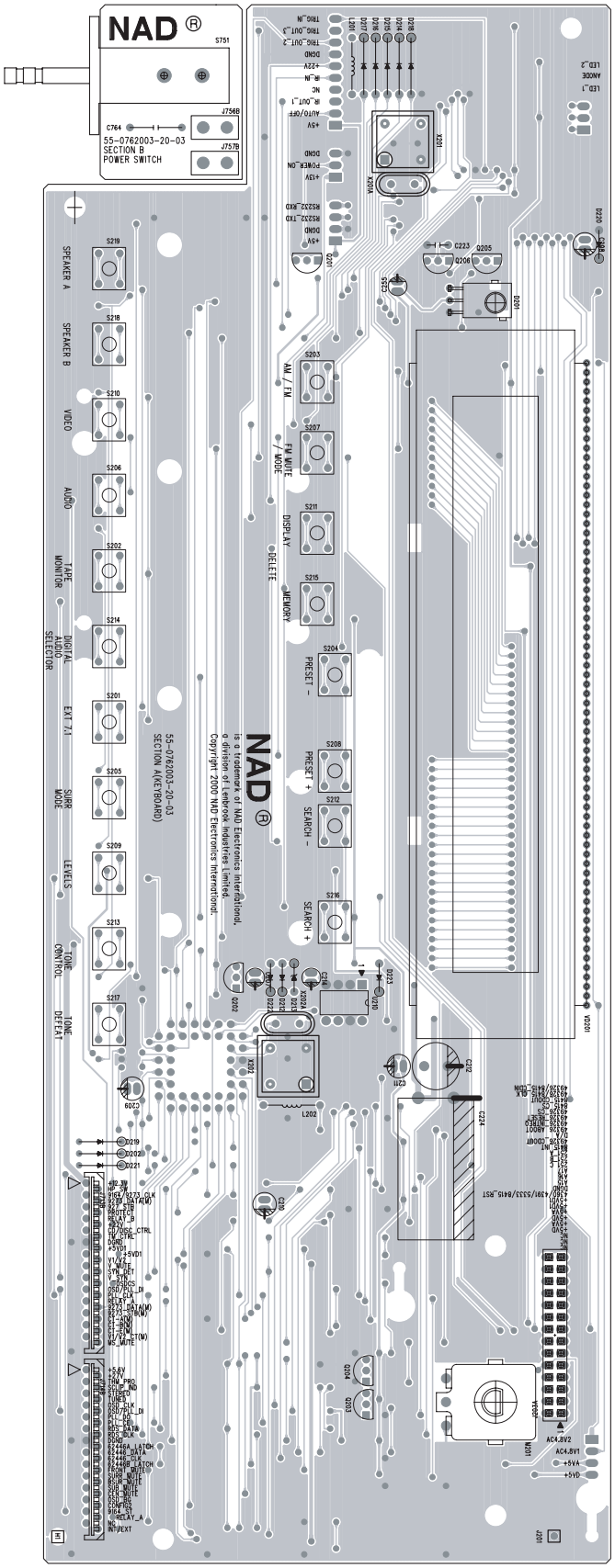


PCB LAYOUT
KEYBOARD (ISSUE 10)

COMPONENT SIDE



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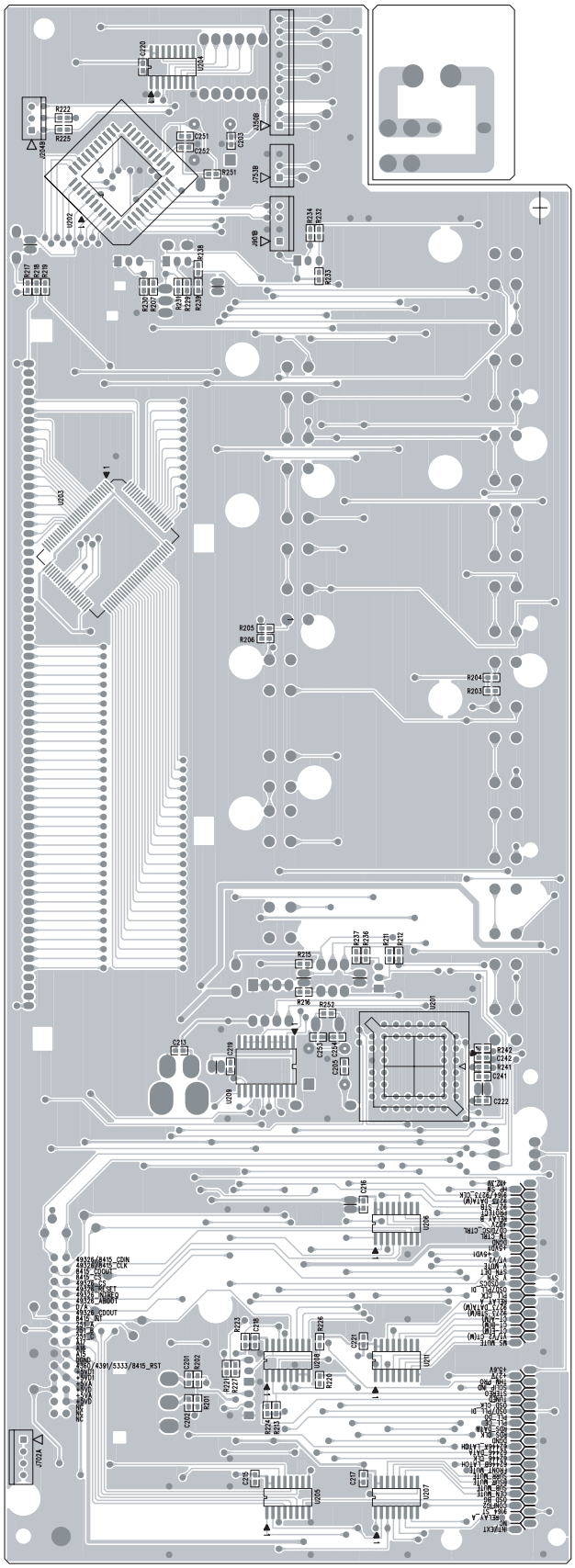
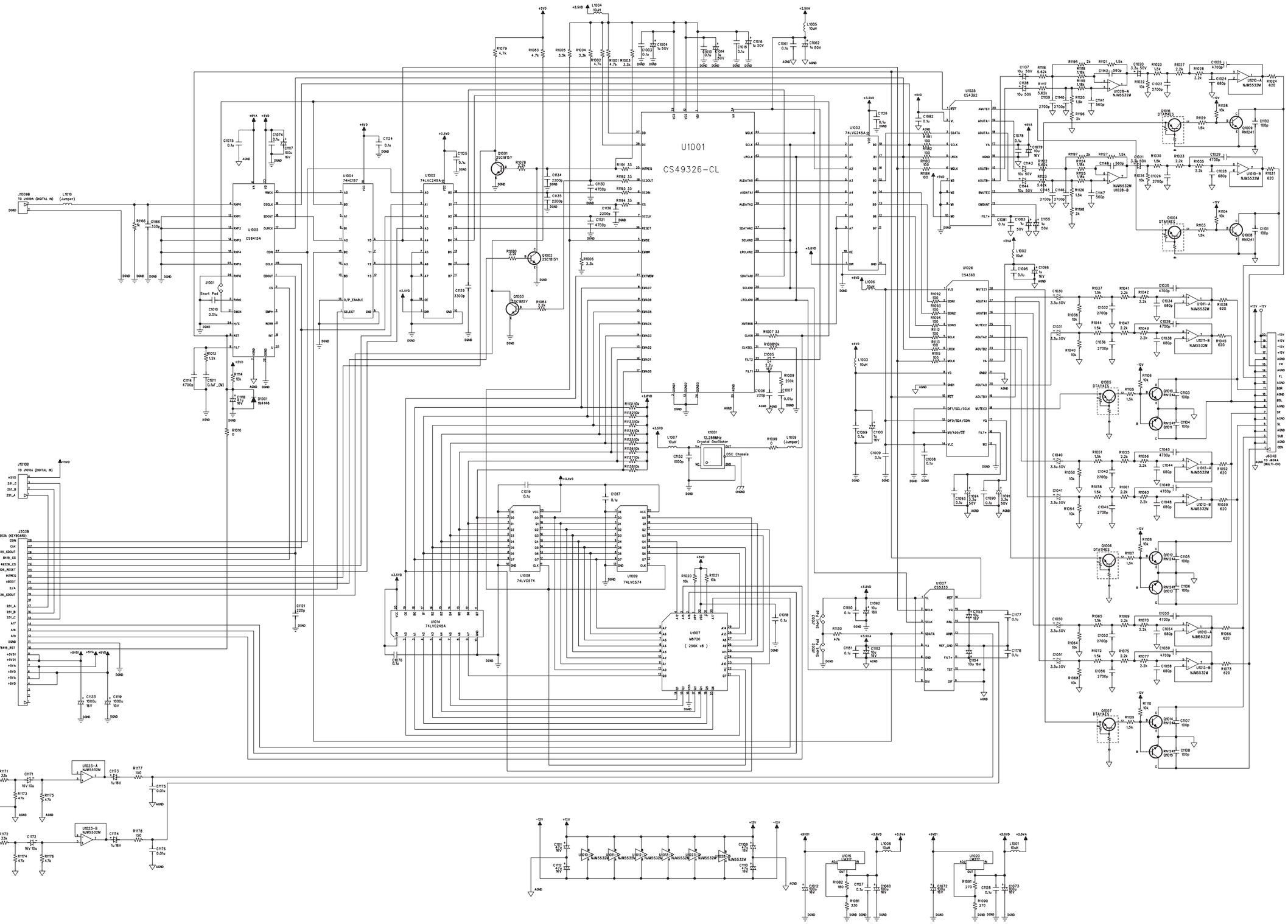
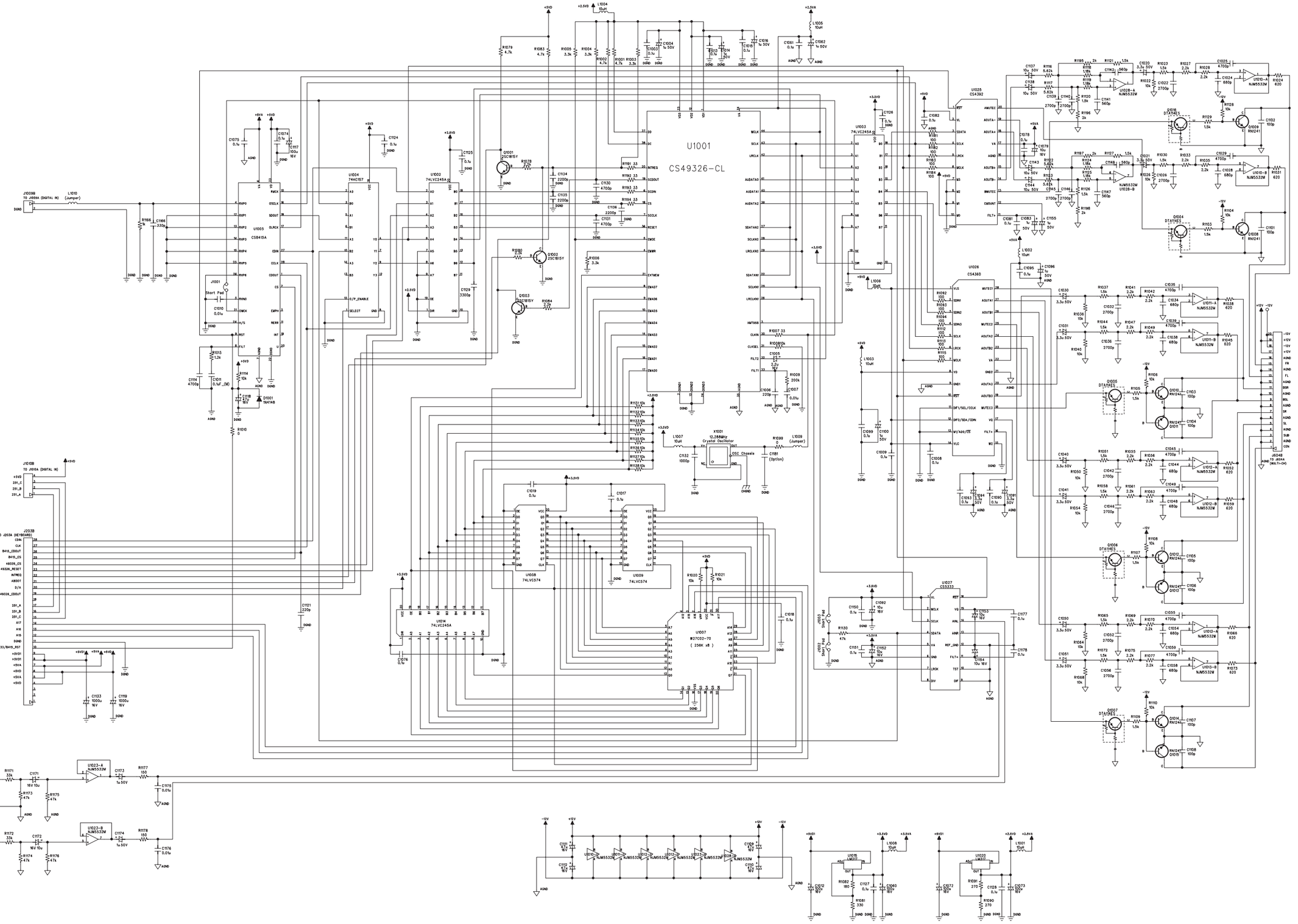


SCHEMATIC DIAGRAM
DSP BOARD (ISSUE 8)



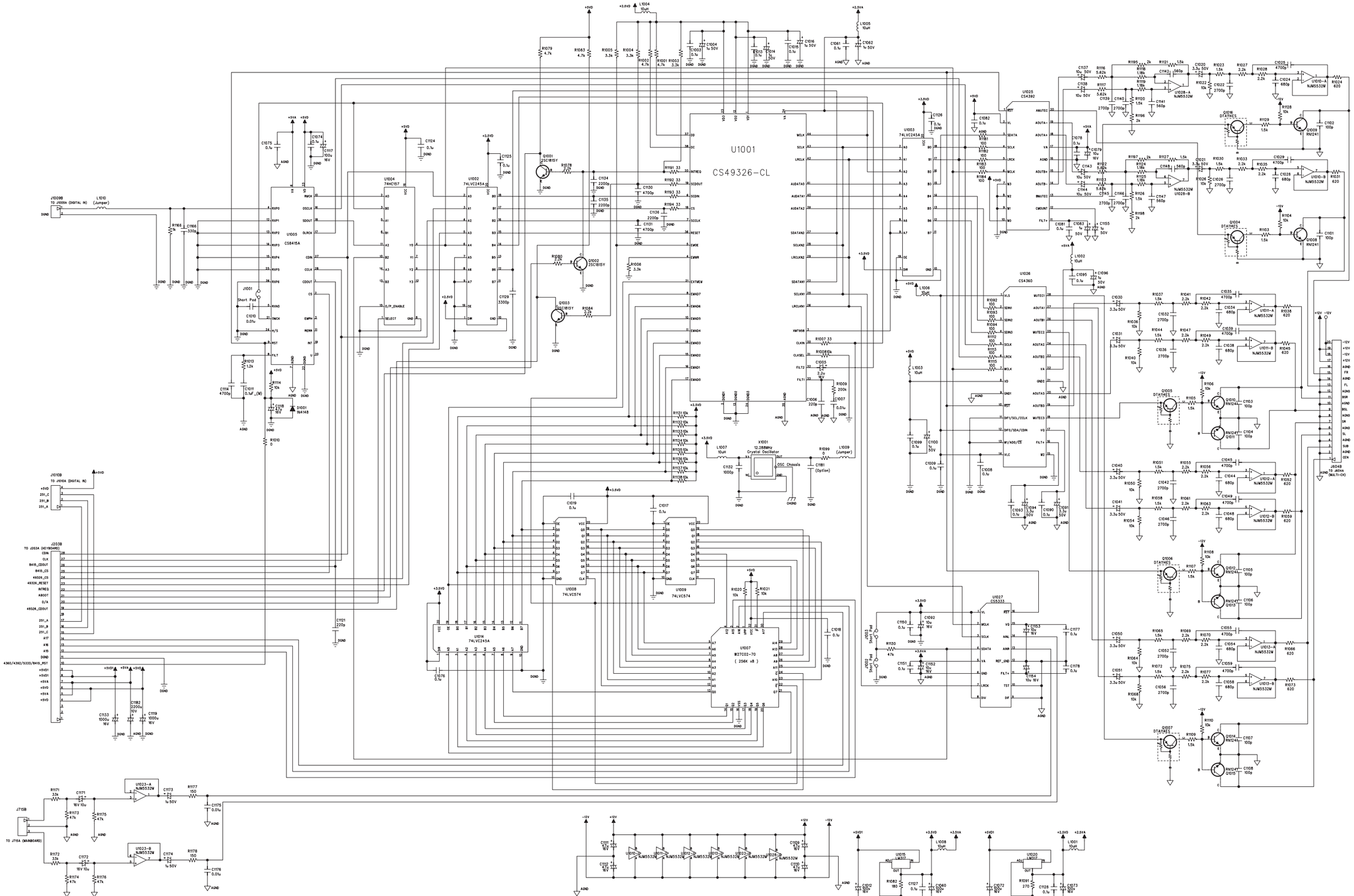
NOTE:
1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 5%.

SCHEMATIC DIAGRAM
DSP BOARD (ISSUE 9)



NOTE:
1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

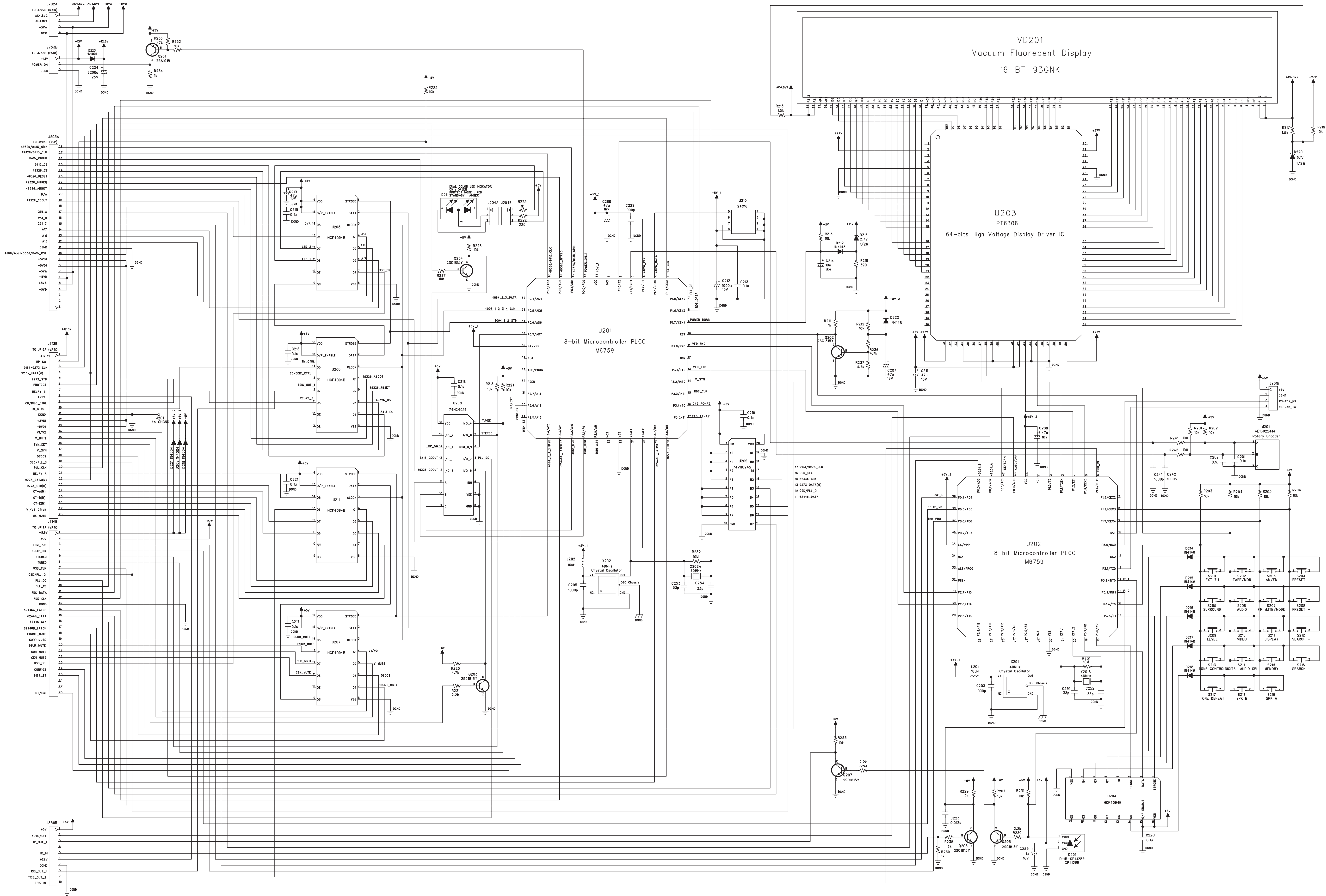
SCHEMATIC DIAGRAM
DSP BOARD (ISSUE 10)



NOTE:
1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

SCHEMATIC DIAGRAM

KEYBOARD (ISSUE 8)

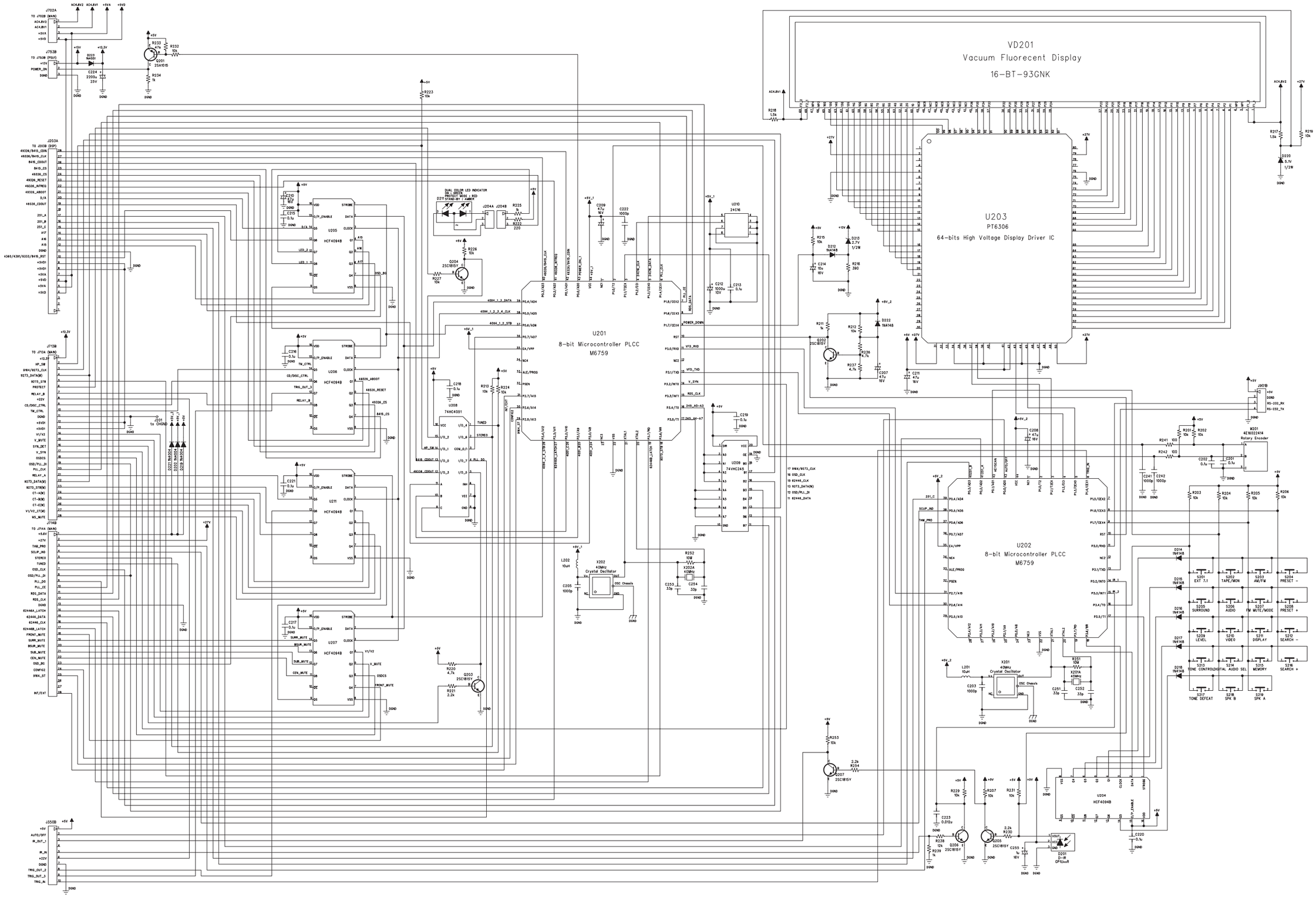


VD201
Vacuum Fluorecent Display
16-BT-93GNK
U203
PT6306
64-bits High Voltage Display Driver IC
U201
8-bit Microcontroller PLCC
M6759
U202
8-bit Microcontroller PLCC
M6759
U205 HCF4094B
U206 HCF4094B
U211 HCF4094B
U207 HCF4094B
U204 HCF4094B
U208 74HC4051
U209 74VHC245
U210 24C16
J702A TO J702B (MAIN)
J753B TO J753B (PSU1)
J203A TO J203B (DSP)
J713B TO J713A (MAIN)
J714B TO J714A (MAIN)
J350B
J901B
J201 to CHGND
DUAL COLOR LED INDICATOR
ON : GREEN
PROTECT MODE : RED
STAND-BY : AMBER
X202 40MHz Crystal Oscillator
X201 40MHz Crystal Oscillator
M201 4E16022414 Rotary Encoder
D201 D-IR-GP1U28R GP1U28R
S201 EXT 7.1
S202 TAPE/MON
S203 AM/FM
S204 PRESET -
S205 SURROUND
S206 AUDIO
S207 FM MUTE/MODE
S208 PRESET +
S209 LEVEL
S210 VIDEO
S211 DISPLAY
S212 SEARCH -
S213 TONE CONTROL
S214 DIGITAL AUDIO SEL
S215 MEMORY
S216 SEARCH +
S217 TONE DEFEAT
S218 SPK B
S219 SPK A

NOTE:

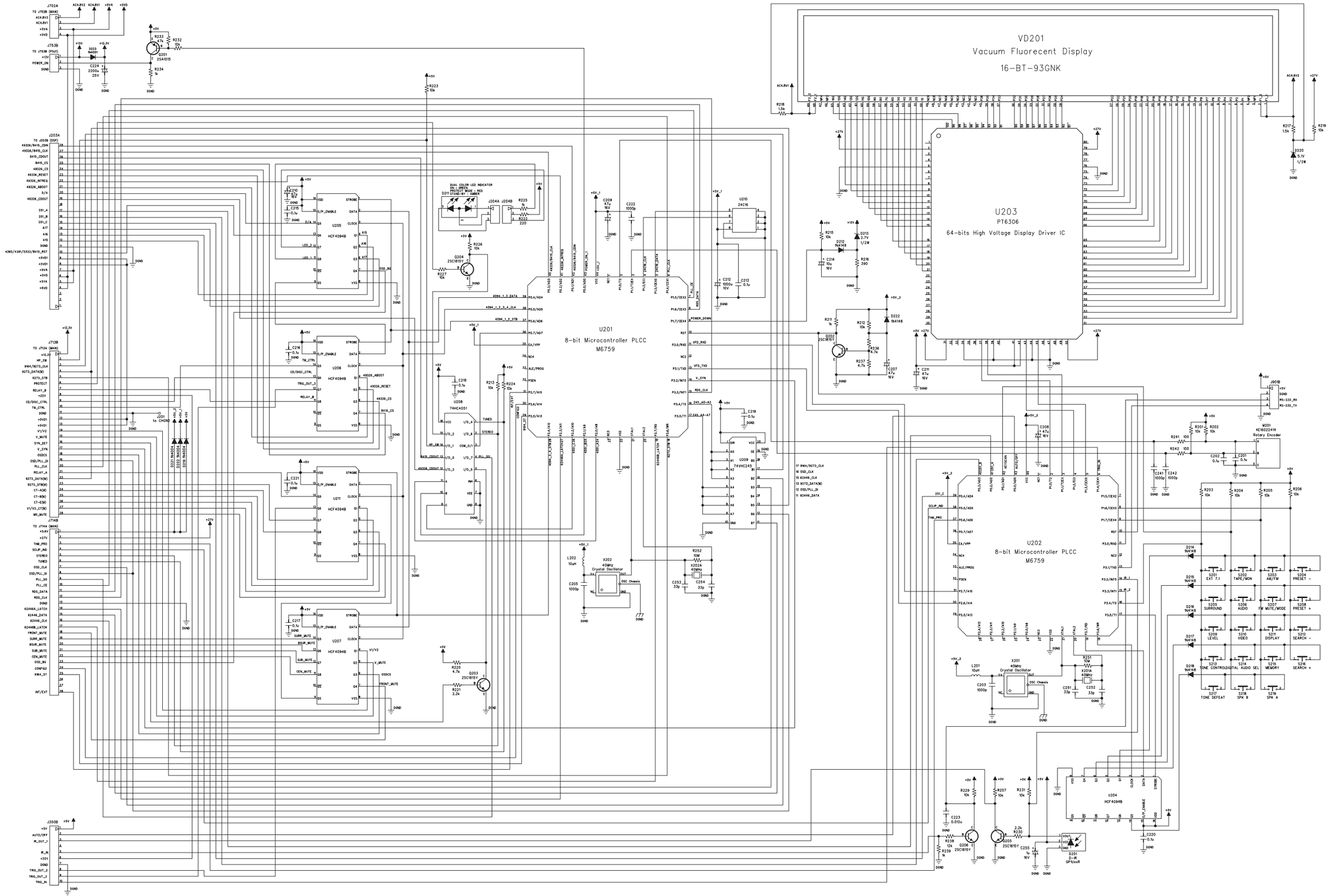
1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

SCHEMATIC DIAGRAM
KEYBOARD (ISSUE 9)



NOTE:
1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

SCHEMATIC DIAGRAM
KEYBOARD (ISSUE 10)



NOTE:
1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.